



# Appendix B

## E-UTRA Band 38



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# 1 Effective (Isotropic) Radiated Power

## 1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	22.93	21.93	33	PASS
Band38	5MHz	QPSK	37775	1RB#13	23.39	22.39	33	PASS
Band38	5MHz	QPSK	37775	1RB#24	23.01	22.01	33	PASS
Band38	5MHz	QPSK	37775	12RB#0	22.12	21.12	33	PASS
Band38	5MHz	QPSK	37775	12RB#6	22.12	21.12	33	PASS
Band38	5MHz	QPSK	37775	12RB#13	22.03	21.03	33	PASS
Band38	5MHz	QPSK	37775	25RB#0	22.09	21.09	33	PASS
Band38	5MHz	QPSK	38000	1RB#0	23.14	22.14	33	PASS
Band38	5MHz	QPSK	38000	1RB#13	22.97	21.97	33	PASS
Band38	5MHz	QPSK	38000	1RB#24	23.20	22.20	33	PASS
Band38	5MHz	QPSK	38000	12RB#0	22.23	21.23	33	PASS
Band38	5MHz	QPSK	38000	12RB#6	21.95	20.95	33	PASS
Band38	5MHz	QPSK	38000	12RB#13	21.91	20.91	33	PASS
Band38	5MHz	QPSK	38000	25RB#0	22.24	21.24	33	PASS
Band38	5MHz	QPSK	38225	1RB#0	23.00	22.00	33	PASS
Band38	5MHz	QPSK	38225	1RB#13	22.93	21.93	33	PASS
Band38	5MHz	QPSK	38225	1RB#24	22.94	21.94	33	PASS
Band38	5MHz	QPSK	38225	12RB#0	22.26	21.26	33	PASS
Band38	5MHz	QPSK	38225	12RB#6	21.95	20.95	33	PASS
Band38	5MHz	QPSK	38225	12RB#13	21.94	20.94	33	PASS
Band38	5MHz	QPSK	38225	25RB#0	22.30	21.30	33	PASS
Band38	5MHz	64QAM	37775	1RB#0	21.06	20.06	33	PASS
Band38	5MHz	64QAM	37775	1RB#13	20.99	19.99	33	PASS
Band38	5MHz	64QAM	37775	1RB#24	20.94	19.94	33	PASS
Band38	5MHz	64QAM	37775	12RB#0	20.17	19.17	33	PASS
Band38	5MHz	64QAM	37775	12RB#6	20.08	19.08	33	PASS
Band38	5MHz	64QAM	37775	12RB#13	20.13	19.13	33	PASS



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Band38	5MHz	64QAM	37775	25RB#0	20.05	19.05	33	PASS
Band38	5MHz	64QAM	38000	1RB#0	21.01	20.01	33	PASS
Band38	5MHz	64QAM	38000	1RB#13	20.97	19.97	33	PASS
Band38	5MHz	64QAM	38000	1RB#24	21.08	20.08	33	PASS
Band38	5MHz	64QAM	38000	12RB#0	19.95	18.95	33	PASS
Band38	5MHz	64QAM	38000	12RB#6	20.16	19.16	33	PASS
Band38	5MHz	64QAM	38000	12RB#13	20.14	19.14	33	PASS
Band38	5MHz	64QAM	38000	25RB#0	20.16	19.16	33	PASS
Band38	5MHz	64QAM	38225	1RB#0	20.98	19.98	33	PASS
Band38	5MHz	64QAM	38225	1RB#13	21.06	20.06	33	PASS
Band38	5MHz	64QAM	38225	1RB#24	21.01	20.01	33	PASS
Band38	5MHz	64QAM	38225	12RB#0	20.17	19.17	33	PASS
Band38	5MHz	64QAM	38225	12RB#6	20.00	19.00	33	PASS
Band38	5MHz	64QAM	38225	12RB#13	20.14	19.14	33	PASS
Band38	5MHz	64QAM	38225	25RB#0	20.13	19.13	33	PASS
Band38	5MHz	16QAM	37775	1RB#0	22.31	21.31	33	PASS
Band38	5MHz	16QAM	37775	1RB#13	22.33	21.33	33	PASS
Band38	5MHz	16QAM	37775	1RB#24	22.11	21.11	33	PASS
Band38	5MHz	16QAM	37775	12RB#0	21.13	20.13	33	PASS
Band38	5MHz	16QAM	37775	12RB#6	21.07	20.07	33	PASS
Band38	5MHz	16QAM	37775	12RB#13	20.95	19.95	33	PASS
Band38	5MHz	16QAM	37775	25RB#0	21.11	20.11	33	PASS
Band38	5MHz	16QAM	38000	1RB#0	22.32	21.32	33	PASS
Band38	5MHz	16QAM	38000	1RB#13	22.28	21.28	33	PASS
Band38	5MHz	16QAM	38000	1RB#24	22.04	21.04	33	PASS
Band38	5MHz	16QAM	38000	12RB#0	21.20	20.20	33	PASS
Band38	5MHz	16QAM	38000	12RB#6	21.11	20.11	33	PASS
Band38	5MHz	16QAM	38000	12RB#13	20.89	19.89	33	PASS
Band38	5MHz	16QAM	38000	25RB#0	20.90	19.90	33	PASS
Band38	5MHz	16QAM	38225	1RB#0	22.29	21.29	33	PASS
Band38	5MHz	16QAM	38225	1RB#13	22.25	21.25	33	PASS
Band38	5MHz	16QAM	38225	1RB#24	22.04	21.04	33	PASS
Band38	5MHz	16QAM	38225	12RB#0	21.34	20.34	33	PASS



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Band38	5MHz	16QAM	38225	12RB#6	20.95	19.95	33	PASS
Band38	5MHz	16QAM	38225	12RB#13	20.94	19.94	33	PASS
Band38	5MHz	16QAM	38225	25RB#0	20.93	19.93	33	PASS
Band38	10MHz	QPSK	37800	1RB#0	23.41	22.41	33	PASS
Band38	10MHz	QPSK	37800	1RB#25	23.29	22.29	33	PASS
Band38	10MHz	QPSK	37800	1RB#49	23.31	22.31	33	PASS
Band38	10MHz	QPSK	37800	25RB#0	22.13	21.13	33	PASS
Band38	10MHz	QPSK	37800	25RB#13	22.06	21.06	33	PASS
Band38	10MHz	QPSK	37800	25RB#25	22.23	21.23	33	PASS
Band38	10MHz	QPSK	37800	50RB#0	22.14	21.14	33	PASS
Band38	10MHz	QPSK	38000	1RB#0	23.02	22.02	33	PASS
Band38	10MHz	QPSK	38000	1RB#25	23.00	22.00	33	PASS
Band38	10MHz	QPSK	38000	1RB#49	23.09	22.09	33	PASS
Band38	10MHz	QPSK	38000	25RB#0	22.22	21.22	33	PASS
Band38	10MHz	QPSK	38000	25RB#13	22.12	21.12	33	PASS
Band38	10MHz	QPSK	38000	25RB#25	22.20	21.20	33	PASS
Band38	10MHz	QPSK	38000	50RB#0	21.89	20.89	33	PASS
Band38	10MHz	QPSK	38200	1RB#0	23.13	22.13	33	PASS
Band38	10MHz	QPSK	38200	1RB#25	22.96	21.96	33	PASS
Band38	10MHz	QPSK	38200	1RB#49	23.06	22.06	33	PASS
Band38	10MHz	QPSK	38200	25RB#0	22.15	21.15	33	PASS
Band38	10MHz	QPSK	38200	25RB#13	22.06	21.06	33	PASS
Band38	10MHz	QPSK	38200	25RB#25	22.14	21.14	33	PASS
Band38	10MHz	QPSK	38200	50RB#0	22.03	21.03	33	PASS
Band38	10MHz	64QAM	37800	1RB#0	21.07	20.07	33	PASS
Band38	10MHz	64QAM	37800	1RB#25	21.08	20.08	33	PASS
Band38	10MHz	64QAM	37800	1RB#49	20.94	19.94	33	PASS
Band38	10MHz	64QAM	37800	25RB#0	20.05	19.05	33	PASS
Band38	10MHz	64QAM	37800	25RB#13	20.14	19.14	33	PASS
Band38	10MHz	64QAM	37800	25RB#25	20.06	19.06	33	PASS
Band38	10MHz	64QAM	37800	50RB#0	19.95	18.95	33	PASS
Band38	10MHz	64QAM	38000	1RB#0	21.02	20.02	33	PASS
Band38	10MHz	64QAM	38000	1RB#25	20.94	19.94	33	PASS



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Band38	10MHz	64QAM	38000	25RB#0	19.94	18.94	33	PASS
Band38	10MHz	64QAM	38000	25RB#13	19.97	18.97	33	PASS
Band38	10MHz	64QAM	38000	25RB#25	20.11	19.11	33	PASS
Band38	10MHz	64QAM	38000	50RB#0	19.95	18.95	33	PASS
Band38	10MHz	64QAM	38200	1RB#0	21.06	20.06	33	PASS
Band38	10MHz	64QAM	38200	1RB#25	20.95	19.95	33	PASS
Band38	10MHz	64QAM	38200	1RB#49	21.01	20.01	33	PASS
Band38	10MHz	64QAM	38200	25RB#0	20.18	19.18	33	PASS
Band38	10MHz	64QAM	38200	25RB#13	20.09	19.09	33	PASS
Band38	10MHz	64QAM	38200	25RB#25	19.97	18.97	33	PASS
Band38	10MHz	64QAM	38200	50RB#0	20.14	19.14	33	PASS
Band38	10MHz	16QAM	37800	1RB#0	22.53	21.53	33	PASS
Band38	10MHz	16QAM	37800	1RB#25	22.47	21.47	33	PASS
Band38	10MHz	16QAM	37800	1RB#49	22.49	21.49	33	PASS
Band38	10MHz	16QAM	37800	25RB#0	21.40	20.40	33	PASS
Band38	10MHz	16QAM	37800	25RB#13	21.12	20.12	33	PASS
Band38	10MHz	16QAM	37800	25RB#25	21.12	20.12	33	PASS
Band38	10MHz	16QAM	37800	50RB#0	21.11	20.11	33	PASS
Band38	10MHz	16QAM	38000	1RB#0	22.53	21.53	33	PASS
Band38	10MHz	16QAM	38000	1RB#25	21.95	20.95	33	PASS
Band38	10MHz	16QAM	38000	1RB#49	22.23	21.23	33	PASS
Band38	10MHz	16QAM	38000	25RB#0	21.03	20.03	33	PASS
Band38	10MHz	16QAM	38000	25RB#13	21.07	20.07	33	PASS
Band38	10MHz	16QAM	38000	25RB#25	21.14	20.14	33	PASS
Band38	10MHz	16QAM	38000	50RB#0	21.18	20.18	33	PASS
Band38	10MHz	16QAM	38200	1RB#0	22.41	21.41	33	PASS
Band38	10MHz	16QAM	38200	1RB#25	22.02	21.02	33	PASS
Band38	10MHz	16QAM	38200	1RB#49	22.02	21.02	33	PASS
Band38	10MHz	16QAM	38200	25RB#0	20.97	19.97	33	PASS
Band38	10MHz	16QAM	38200	25RB#13	20.81	19.81	33	PASS
Band38	10MHz	16QAM	38200	25RB#25	21.00	20.00	33	PASS
Band38	10MHz	16QAM	38200	50RB#0	20.88	19.88	33	PASS



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Band38	15MHz	QPSK	37825	1RB#38	22.88	21.88	33	PASS
Band38	15MHz	QPSK	37825	1RB#74	23.09	22.09	33	PASS
Band38	15MHz	QPSK	37825	36RB#0	22.47	21.47	33	PASS
Band38	15MHz	QPSK	37825	36RB#18	22.81	21.81	33	PASS
Band38	15MHz	QPSK	37825	36RB#39	22.80	21.80	33	PASS
Band38	15MHz	QPSK	37825	75RB#0	22.71	21.71	33	PASS
Band38	15MHz	QPSK	38000	1RB#0	23.08	22.08	33	PASS
Band38	15MHz	QPSK	38000	1RB#38	22.85	21.85	33	PASS
Band38	15MHz	QPSK	38000	1RB#74	23.27	22.27	33	PASS
Band38	15MHz	QPSK	38000	36RB#0	22.23	21.23	33	PASS
Band38	15MHz	QPSK	38000	36RB#18	22.28	21.28	33	PASS
Band38	15MHz	QPSK	38000	36RB#39	22.37	21.37	33	PASS
Band38	15MHz	QPSK	38000	75RB#0	22.38	21.38	33	PASS
Band38	15MHz	QPSK	38175	1RB#0	22.96	21.96	33	PASS
Band38	15MHz	QPSK	38175	1RB#38	23.07	22.07	33	PASS
Band38	15MHz	QPSK	38175	1RB#74	23.17	22.17	33	PASS
Band38	15MHz	QPSK	38175	36RB#0	22.23	21.23	33	PASS
Band38	15MHz	QPSK	38175	36RB#18	22.36	21.36	33	PASS
Band38	15MHz	QPSK	38175	36RB#39	22.38	21.38	33	PASS
Band38	15MHz	QPSK	38175	75RB#0	22.58	21.58	33	PASS
Band38	15MHz	64QAM	37825	1RB#0	21.02	20.02	33	PASS
Band38	15MHz	64QAM	37825	1RB#38	20.95	19.95	33	PASS
Band38	15MHz	64QAM	37825	1RB#74	21.05	20.05	33	PASS
Band38	15MHz	64QAM	37825	36RB#0	20.17	19.17	33	PASS
Band38	15MHz	64QAM	37825	36RB#18	20.15	19.15	33	PASS
Band38	15MHz	64QAM	37825	36RB#39	19.96	18.96	33	PASS
Band38	15MHz	64QAM	37825	75RB#0	20.15	19.15	33	PASS
Band38	15MHz	64QAM	38000	1RB#0	20.99	19.99	33	PASS
Band38	15MHz	64QAM	38000	1RB#38	20.97	19.97	33	PASS
Band38	15MHz	64QAM	38000	1RB#74	21.07	20.07	33	PASS
Band38	15MHz	64QAM	38000	36RB#0	20.12	19.12	33	PASS
Band38	15MHz	64QAM	38000	36RB#18	19.96	18.96	33	PASS



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Band38	15MHz	64QAM	38000	36RB#39	20.12	19.12	33	PASS
Band38	15MHz	64QAM	38000	75RB#0	20.10	19.10	33	PASS
Band38	15MHz	64QAM	38175	1RB#0	21.01	20.01	33	PASS
Band38	15MHz	64QAM	38175	1RB#38	21.08	20.08	33	PASS
Band38	15MHz	64QAM	38175	1RB#74	21.05	20.05	33	PASS
Band38	15MHz	64QAM	38175	36RB#0	20.13	19.13	33	PASS
Band38	15MHz	64QAM	38175	36RB#18	20.09	19.09	33	PASS
Band38	15MHz	64QAM	38175	36RB#39	19.98	18.98	33	PASS
Band38	15MHz	64QAM	38175	75RB#0	20.01	19.01	33	PASS
Band38	15MHz	16QAM	37825	1RB#0	23.02	22.02	33	PASS
Band38	15MHz	16QAM	37825	1RB#38	22.59	21.59	33	PASS
Band38	15MHz	16QAM	37825	1RB#74	22.80	21.80	33	PASS
Band38	15MHz	16QAM	37825	36RB#0	22.12	21.12	33	PASS
Band38	15MHz	16QAM	37825	36RB#18	21.99	20.99	33	PASS
Band38	15MHz	16QAM	37825	36RB#39	21.99	20.99	33	PASS
Band38	15MHz	16QAM	37825	75RB#0	22.02	21.02	33	PASS
Band38	15MHz	16QAM	38000	1RB#0	22.90	21.90	33	PASS
Band38	15MHz	16QAM	38000	1RB#38	22.47	21.47	33	PASS
Band38	15MHz	16QAM	38000	1RB#74	22.58	21.58	33	PASS
Band38	15MHz	16QAM	38000	36RB#0	21.79	20.79	33	PASS
Band38	15MHz	16QAM	38000	36RB#18	21.64	20.64	33	PASS
Band38	15MHz	16QAM	38000	36RB#39	21.76	20.76	33	PASS
Band38	15MHz	16QAM	38000	75RB#0	21.70	20.70	33	PASS
Band38	15MHz	16QAM	38175	1RB#0	22.78	21.78	33	PASS
Band38	15MHz	16QAM	38175	1RB#38	22.53	21.53	33	PASS
Band38	15MHz	16QAM	38175	1RB#74	22.69	21.69	33	PASS
Band38	15MHz	16QAM	38175	36RB#0	21.88	20.88	33	PASS
Band38	15MHz	16QAM	38175	36RB#18	22.12	21.12	33	PASS
Band38	15MHz	16QAM	38175	36RB#39	21.84	20.84	33	PASS
Band38	15MHz	16QAM	38175	75RB#0	21.89	20.89	33	PASS
Band38	20MHz	QPSK	37850	1RB#0	23.22	22.22	33	PASS
Band38	20MHz	QPSK	37850	1RB#50	23.18	22.18	33	PASS
Band38	20MHz	QPSK	37850	1RB#99	23.16	22.16	33	PASS



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Band38	20MHz	QPSK	37850	50RB#0	22.21	21.21	33	PASS
Band38	20MHz	QPSK	37850	50RB#25	21.97	20.97	33	PASS
Band38	20MHz	QPSK	37850	50RB#50	22.03	21.03	33	PASS
Band38	20MHz	QPSK	37850	100RB#0	22.31	21.31	33	PASS
Band38	20MHz	QPSK	38000	1RB#0	23.19	22.19	33	PASS
Band38	20MHz	QPSK	38000	1RB#50	23.01	22.01	33	PASS
Band38	20MHz	QPSK	38000	1RB#99	23.29	22.29	33	PASS
Band38	20MHz	QPSK	38000	50RB#0	22.35	21.35	33	PASS
Band38	20MHz	QPSK	38000	50RB#25	22.06	21.06	33	PASS
Band38	20MHz	QPSK	38000	50RB#50	22.16	21.16	33	PASS
Band38	20MHz	QPSK	38000	100RB#0	22.09	21.09	33	PASS
Band38	20MHz	QPSK	38150	1RB#0	23.38	22.38	33	PASS
Band38	20MHz	QPSK	38150	1RB#50	23.04	22.04	33	PASS
Band38	20MHz	QPSK	38150	1RB#99	23.31	22.31	33	PASS
Band38	20MHz	QPSK	38150	50RB#0	22.32	21.32	33	PASS
Band38	20MHz	QPSK	38150	50RB#25	22.28	21.28	33	PASS
Band38	20MHz	QPSK	38150	50RB#50	22.02	21.02	33	PASS
Band38	20MHz	QPSK	38150	100RB#0	22.08	21.08	33	PASS
Band38	20MHz	64QAM	37850	1RB#0	20.99	19.99	33	PASS
Band38	20MHz	64QAM	37850	1RB#50	20.95	19.95	33	PASS
Band38	20MHz	64QAM	37850	1RB#99	21.06	20.06	33	PASS
Band38	20MHz	64QAM	37850	50RB#0	20.18	19.18	33	PASS
Band38	20MHz	64QAM	37850	50RB#25	20.01	19.01	33	PASS
Band38	20MHz	64QAM	37850	50RB#50	20.09	19.09	33	PASS
Band38	20MHz	64QAM	37850	100RB#0	20.11	19.11	33	PASS
Band38	20MHz	64QAM	38000	1RB#0	21.07	20.07	33	PASS
Band38	20MHz	64QAM	38000	1RB#50	21.00	20.00	33	PASS
Band38	20MHz	64QAM	38000	1RB#99	20.97	19.97	33	PASS
Band38	20MHz	64QAM	38000	50RB#0	20.08	19.08	33	PASS
Band38	20MHz	64QAM	38000	50RB#25	19.98	18.98	33	PASS
Band38	20MHz	64QAM	38000	50RB#50	20.07	19.07	33	PASS
Band38	20MHz	64QAM	38000	100RB#0	19.97	18.97	33	PASS
Band38	20MHz	64QAM	38150	1RB#0	21.03	20.03	33	PASS



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Band38	20MHz	64QAM	38150	1RB#50	20.98	19.98	33	PASS
Band38	20MHz	64QAM	38150	1RB#99	21.01	20.01	33	PASS
Band38	20MHz	64QAM	38150	50RB#0	20.02	19.02	33	PASS
Band38	20MHz	64QAM	38150	50RB#25	20.10	19.10	33	PASS
Band38	20MHz	64QAM	38150	50RB#50	20.02	19.02	33	PASS
Band38	20MHz	64QAM	38150	100RB#0	19.98	18.98	33	PASS
Band38	20MHz	16QAM	37850	1RB#0	22.34	21.34	33	PASS
Band38	20MHz	16QAM	37850	1RB#50	22.15	21.15	33	PASS
Band38	20MHz	16QAM	37850	1RB#99	22.14	21.14	33	PASS
Band38	20MHz	16QAM	37850	50RB#0	21.00	20.00	33	PASS
Band38	20MHz	16QAM	37850	50RB#25	21.14	20.14	33	PASS
Band38	20MHz	16QAM	37850	50RB#50	21.23	20.23	33	PASS
Band38	20MHz	16QAM	37850	100RB#0	21.04	20.04	33	PASS
Band38	20MHz	16QAM	38000	1RB#0	22.54	21.54	33	PASS
Band38	20MHz	16QAM	38000	1RB#50	22.34	21.34	33	PASS
Band38	20MHz	16QAM	38000	1RB#99	22.28	21.28	33	PASS
Band38	20MHz	16QAM	38000	50RB#0	21.10	20.10	33	PASS
Band38	20MHz	16QAM	38000	50RB#25	21.04	20.04	33	PASS
Band38	20MHz	16QAM	38000	50RB#50	21.15	20.15	33	PASS
Band38	20MHz	16QAM	38000	100RB#0	21.26	20.26	33	PASS
Band38	20MHz	16QAM	38150	1RB#0	22.63	21.63	33	PASS
Band38	20MHz	16QAM	38150	1RB#50	22.36	21.36	33	PASS
Band38	20MHz	16QAM	38150	1RB#99	22.38	21.38	33	PASS
Band38	20MHz	16QAM	38150	50RB#0	21.07	20.07	33	PASS
Band38	20MHz	16QAM	38150	50RB#25	21.13	20.13	33	PASS
Band38	20MHz	16QAM	38150	50RB#50	21.11	20.11	33	PASS
Band38	20MHz	16QAM	38150	100RB#0	21.33	20.33	33	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

$$ERP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$

$$EIRP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$



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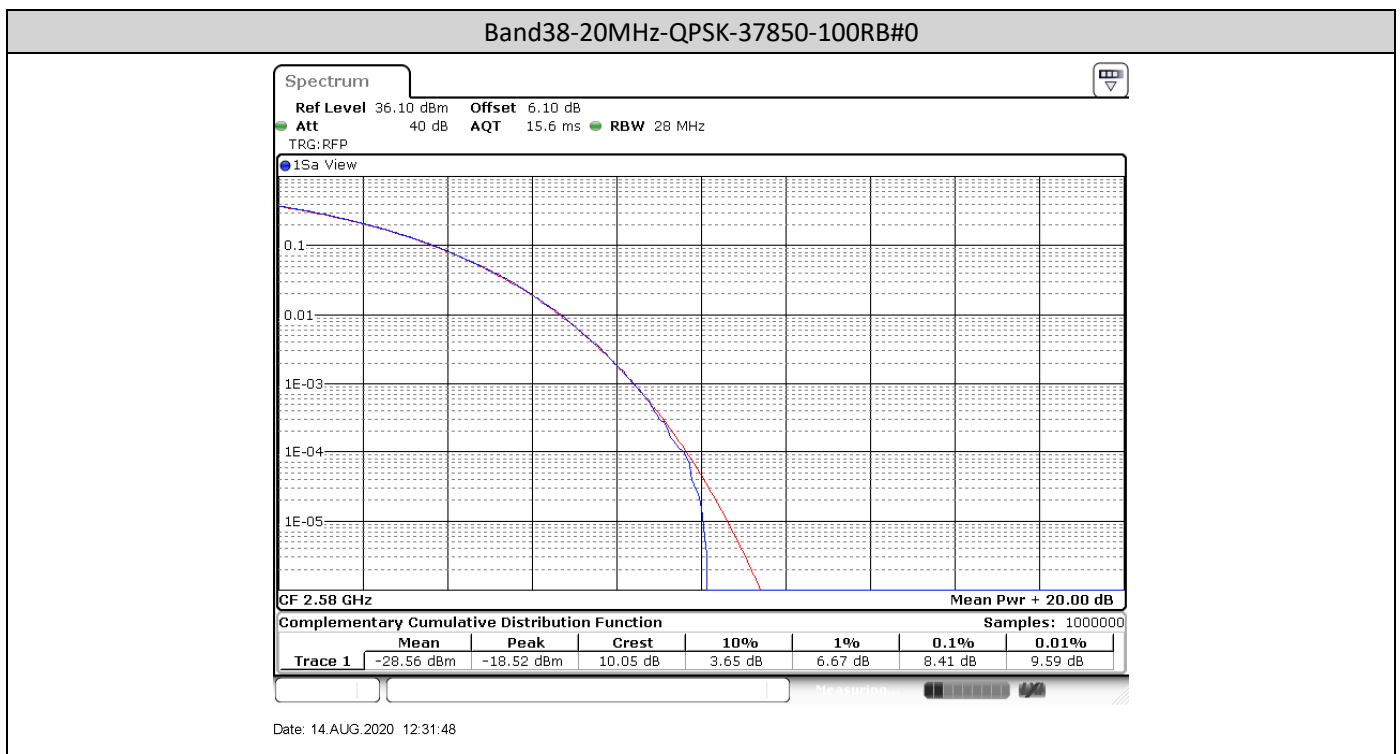


## 2. Peak-to-Average Ratio (CCDF)

### 2.1. Test Result

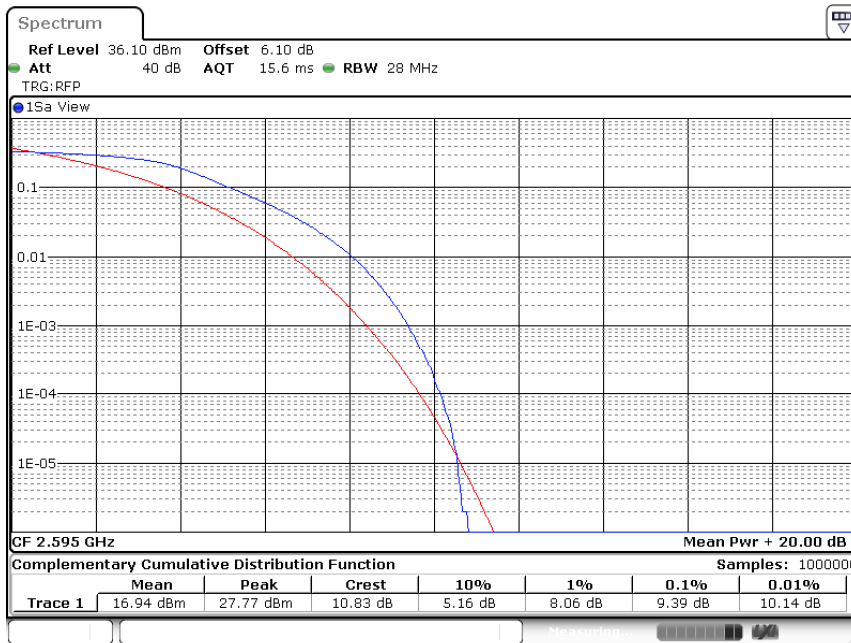
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	8.41	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	9.39	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	9.13	13	PASS
Band38	20MHz	64QAM	37850	100RB#0	6.84	13	PASS
Band38	20MHz	64QAM	38000	100RB#0	9.86	13	PASS
Band38	20MHz	64QAM	38150	100RB#0	9.91	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	9.77	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	9.71	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	9.80	13	PASS

### 2.2. Test Plots



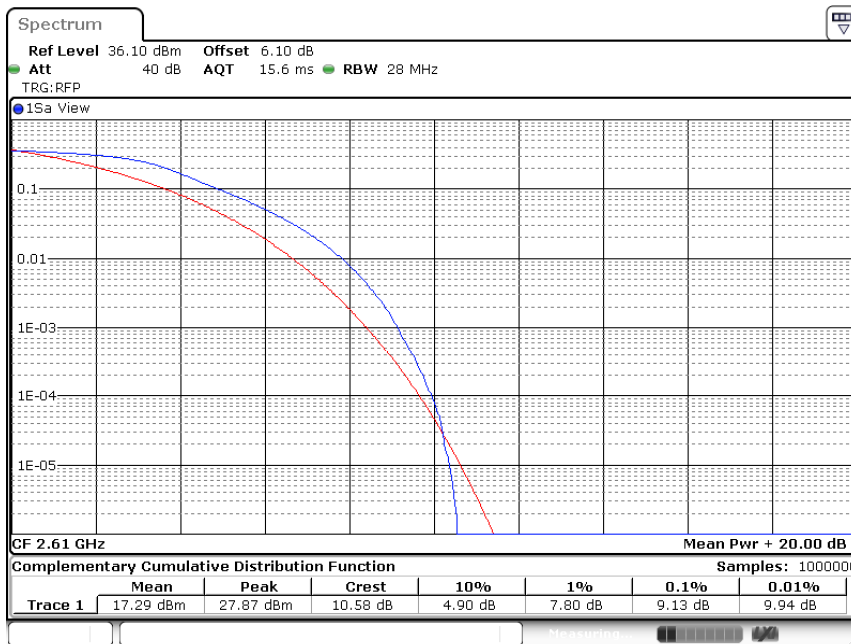
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**Band38-20MHz-QPSK-38000-100RB#0**



Date: 14.AUG.2020 12:32:11

**Band38-20MHz-QPSK-38150-100RB#0**



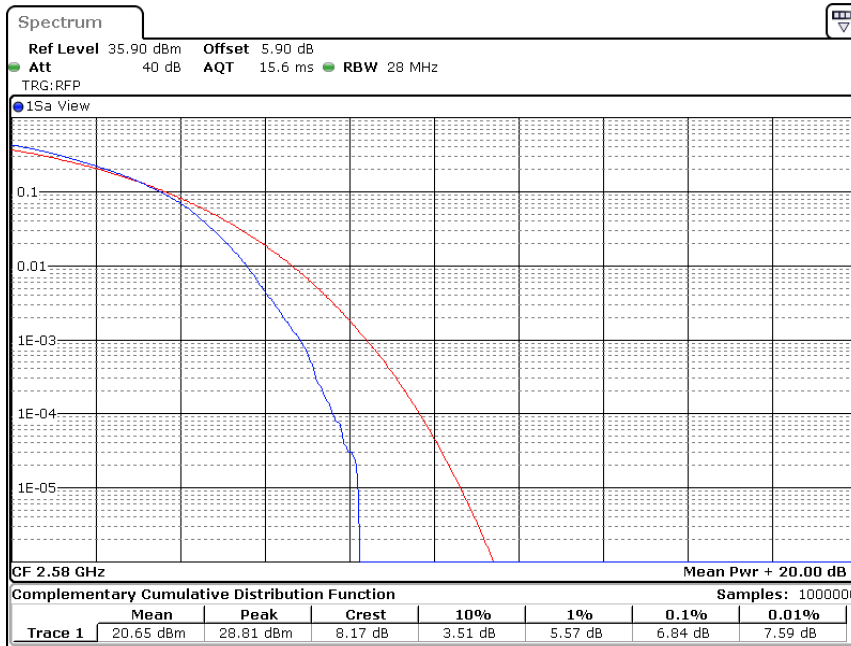
Date: 14.AUG.2020 12:32:34



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**Band38-20MHz-64QAM-37850-100RB#0**



Date: 28.AUG.2020 20:55:30

**Band38-20MHz-64QAM-38000-100RB#0**



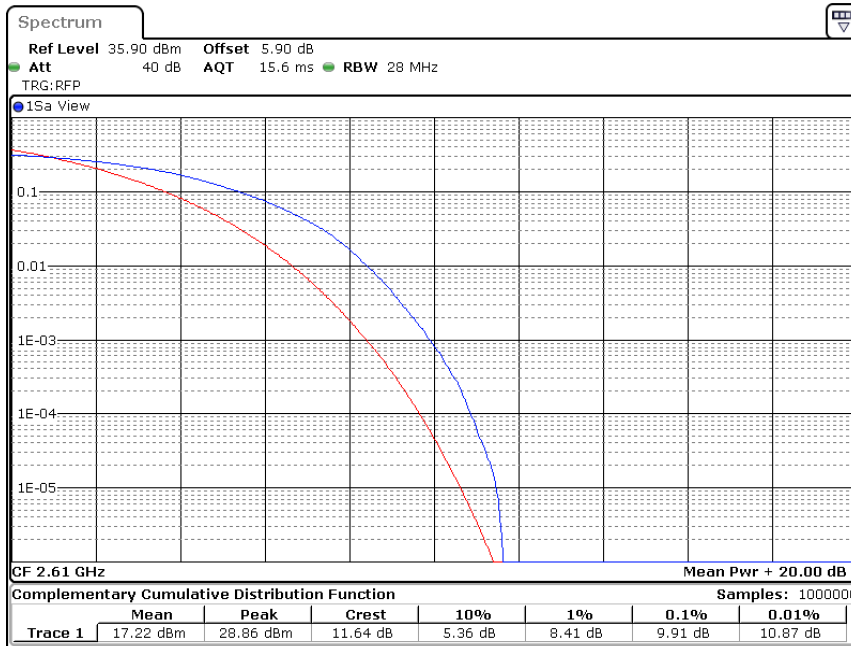
Date: 28.AUG.2020 20:55:42



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**Band38-20MHz-64QAM-38150-100RB#0**



Date: 28.AUG.2020 20:55:54

**Band38-20MHz-16QAM-37850-100RB#0**

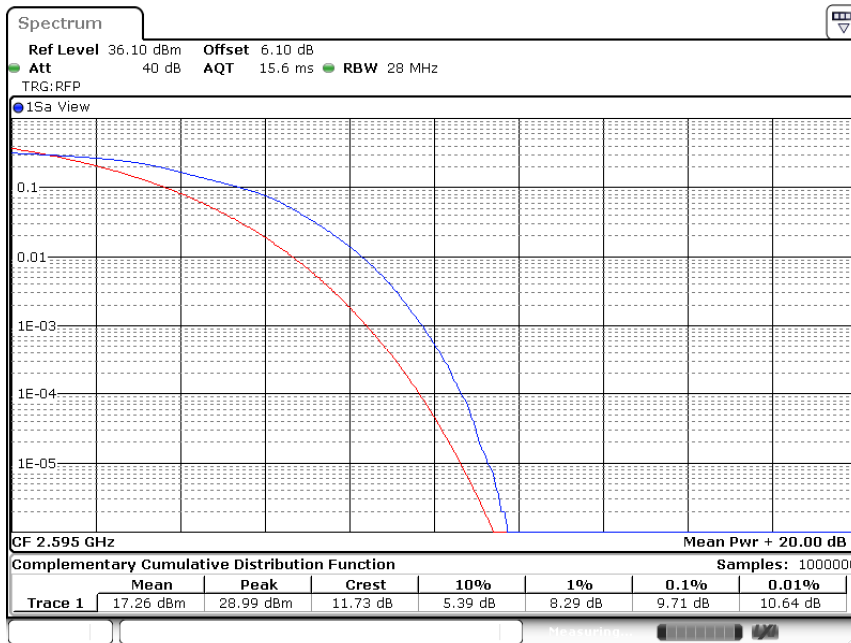


Date: 14.AUG.2020 12:31:59



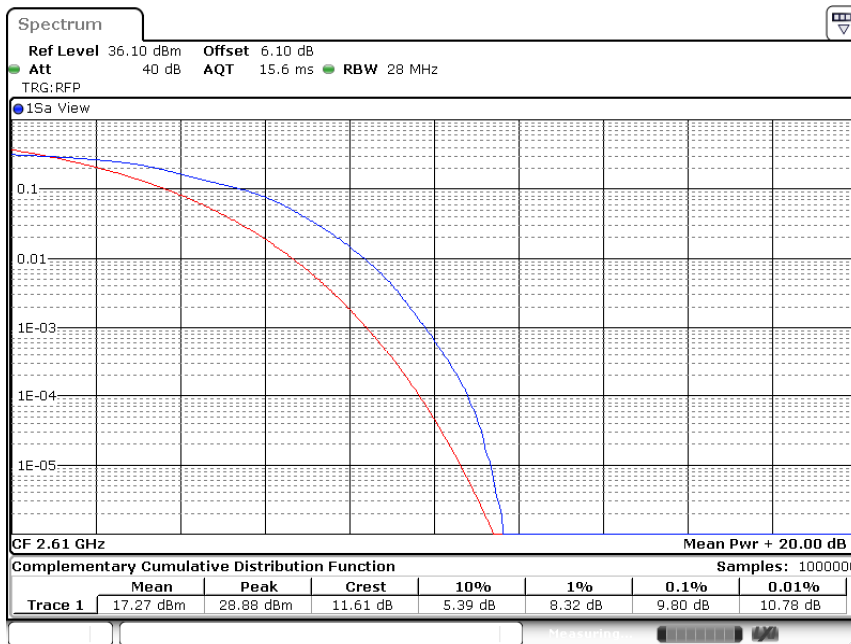
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**Band38-20MHz-16QAM-38000-100RB#0**



Date: 14.AUG.2020 12:32:22

**Band38-20MHz-16QAM-38150-100RB#0**



Date: 14.AUG.2020 12:32:45

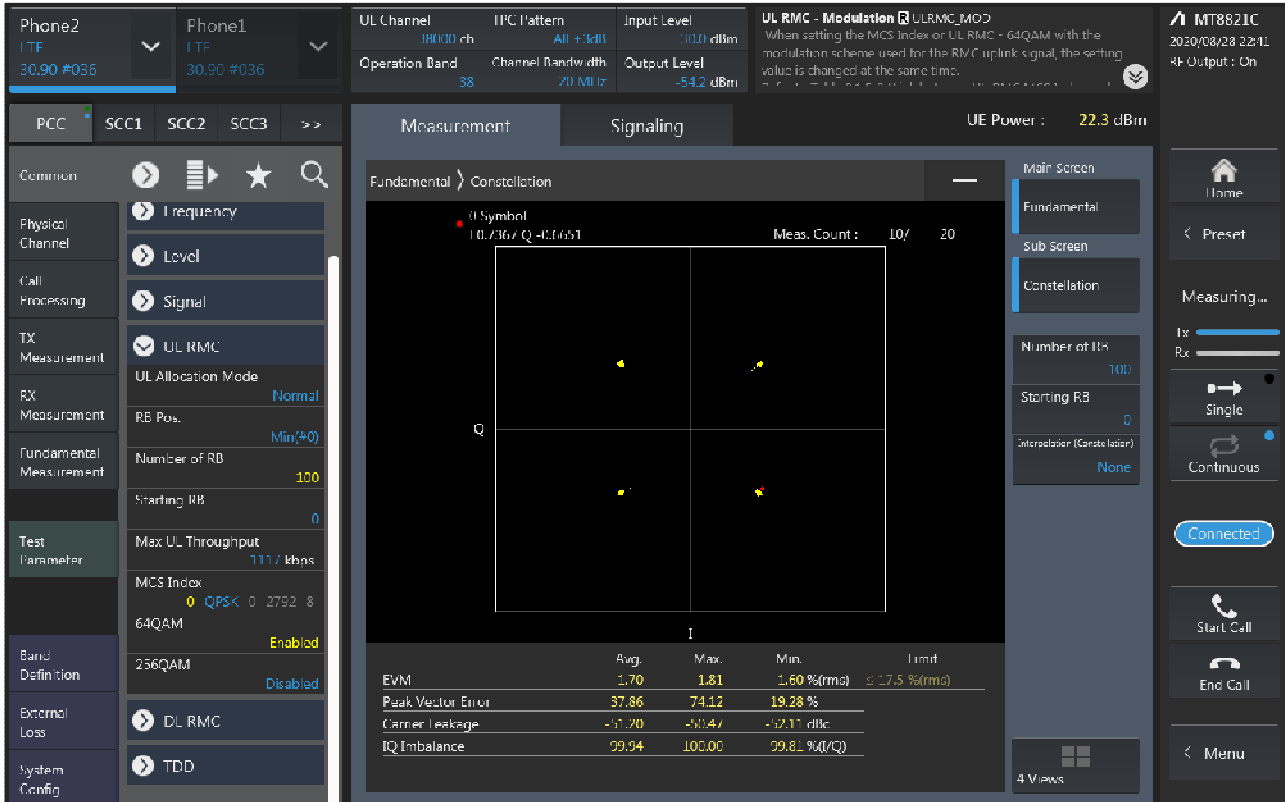


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### 3. Modulation Characteristics

#### 3.1. Test Mode = LTE /TM1 20MHz

##### 3.1.1. Test Channel = MCH



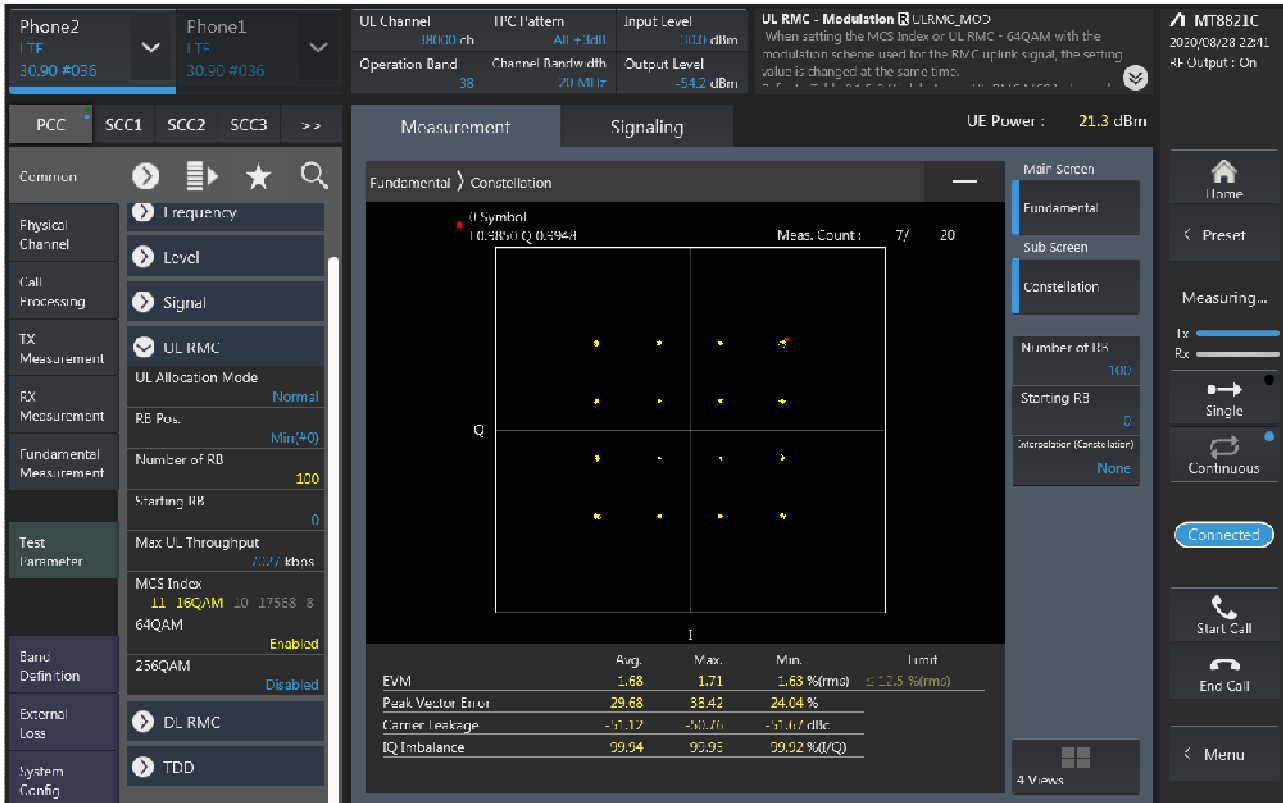
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### 3.2. Test Mode = LTE /TM2 20MHz

#### 3.2.1. Test Channel = MCH

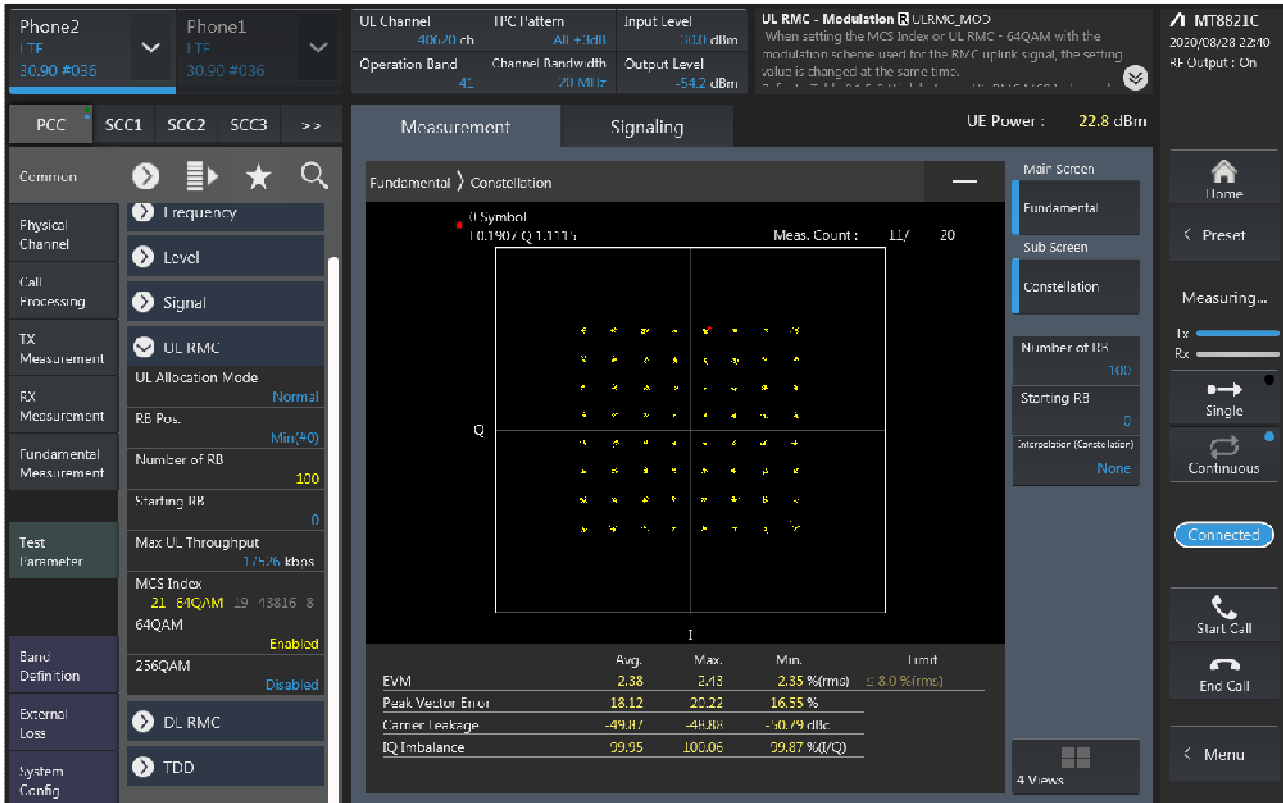


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### 3.3. Test Mode = LTE /TM3 20MHz

#### 3.3.1. Test Channel = MCH



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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	3775	25RB#0	4.476	4.960	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.476	4.960	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.476	4.980	PASS
Band38	5MHz	64QAM	3775	25RB#0	4.486	5.140	PASS
Band38	5MHz	64QAM	38000	25RB#0	4.486	5.150	PASS
Band38	5MHz	64QAM	38225	25RB#0	4.486	5.150	PASS
Band38	5MHz	16QAM	3775	25RB#0	4.496	4.960	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.496	4.950	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.496	4.940	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.911	9.800	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.911	9.780	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.911	9.780	PASS
Band38	10MHz	64QAM	37800	50RB#0	8.931	9.760	PASS
Band38	10MHz	64QAM	38000	50RB#0	8.931	9.760	PASS
Band38	10MHz	64QAM	38200	50RB#0	8.931	9.760	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.911	9.640	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.911	9.620	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.911	9.640	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.487	16.320	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.516	16.350	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.516	16.440	PASS
Band38	15MHz	64QAM	37825	75RB#0	13.457	14.880	PASS
Band38	15MHz	64QAM	38000	75RB#0	13.457	15.000	PASS
Band38	15MHz	64QAM	38175	75RB#0	13.457	14.850	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.457	15.150	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.457	15.090	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.457	15.090	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.902	19.520	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.942	19.520	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.902	19.640	PASS
Band38	20MHz	64QAM	37850	100RB#0	17.942	19.640	PASS



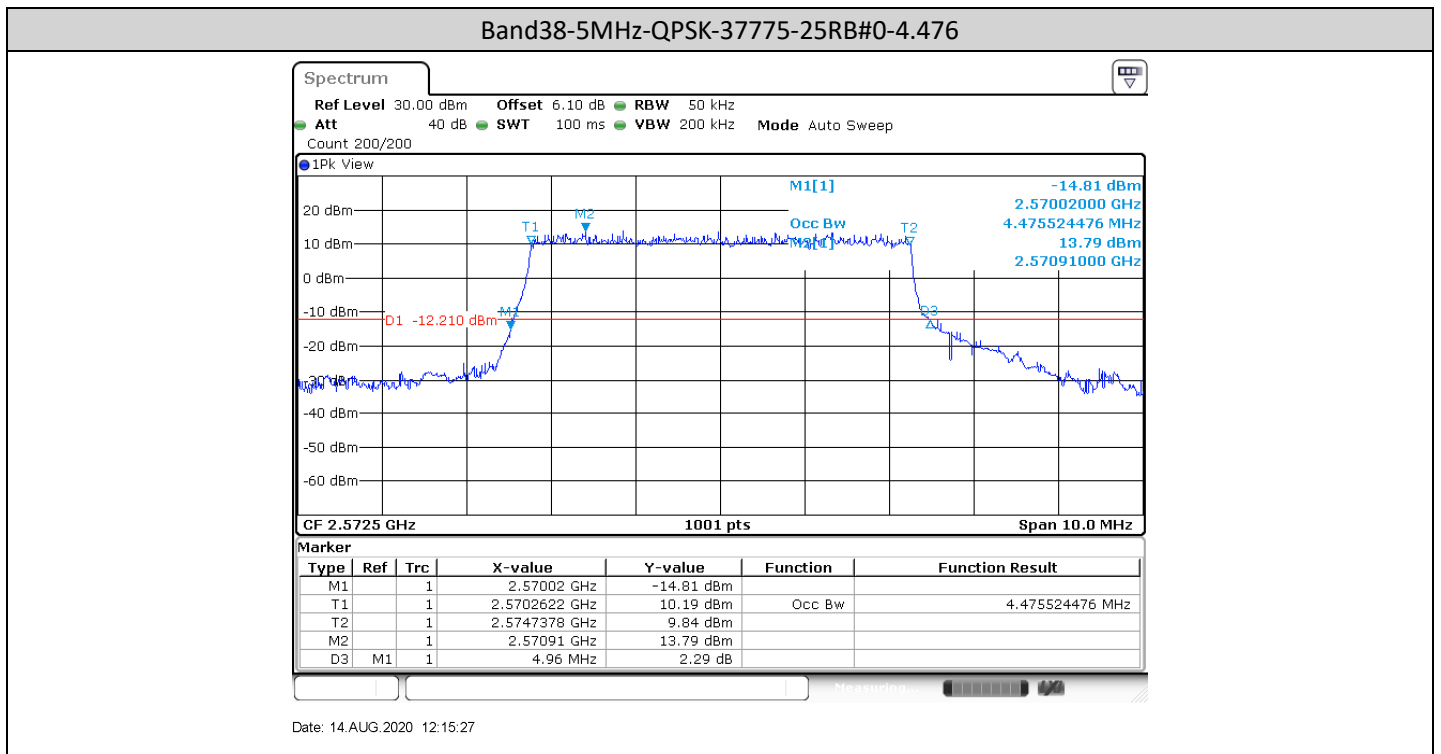
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Band38	20MHz	64QAM	38000	100RB#0	17.942	19.680	PASS
Band38	20MHz	64QAM	38150	100RB#0	17.902	19.600	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.902	20.520	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.902	20.560	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.902	20.600	PASS

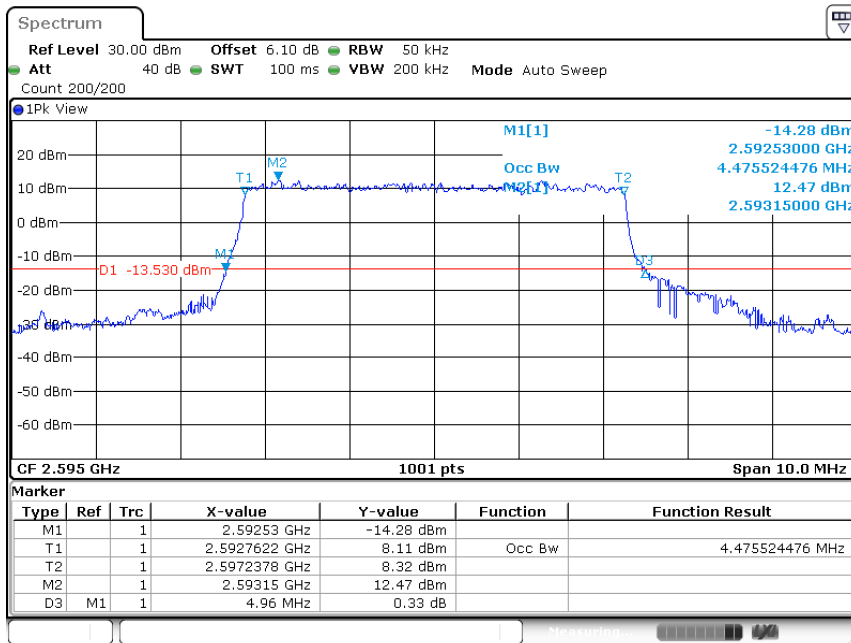
## 4.2. Test Plots



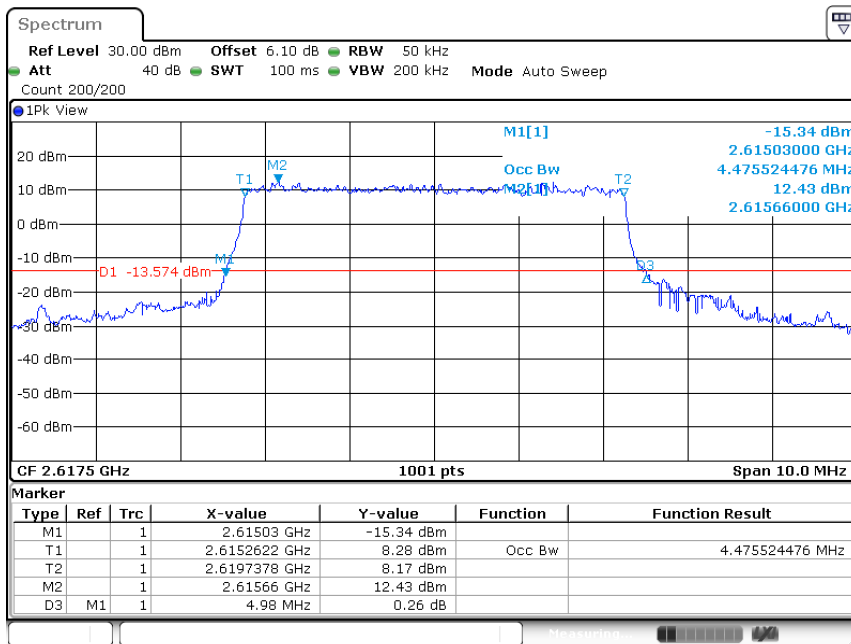
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**Band38-5MHz-QPSK-38000-25RB#0-4.476**

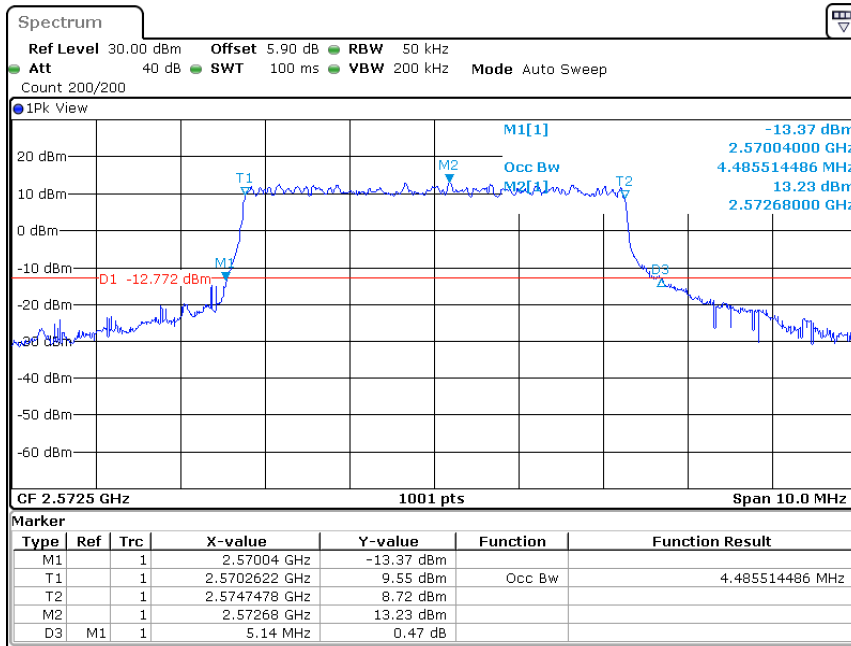


**Band38-5MHz-QPSK-38225-25RB#0-4.476**



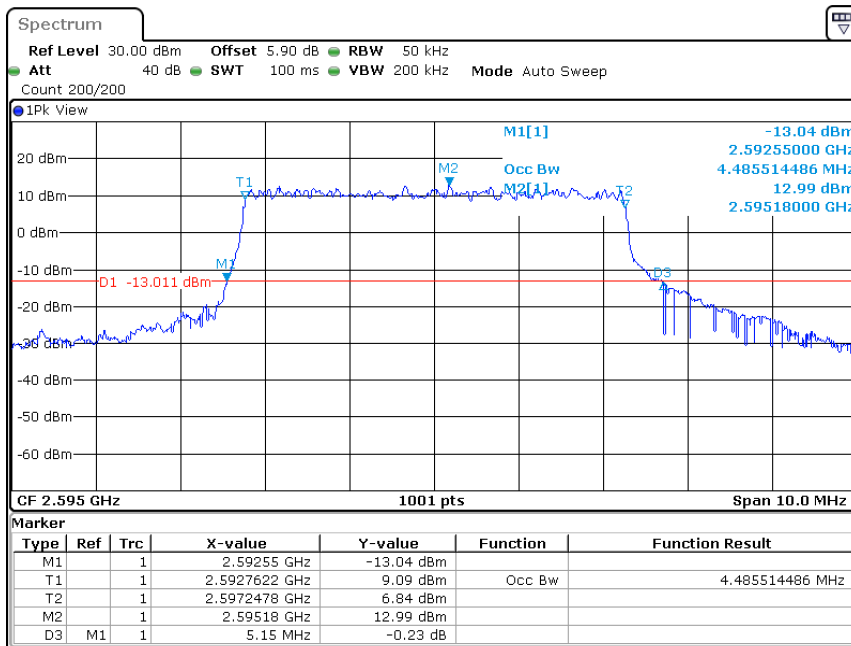
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**Band38-5MHz-64QAM-37775-25RB#0-4.486**



Date: 28.AUG.2020 20:34:48

**Band38-5MHz-64QAM-38000-25RB#0-4.486**

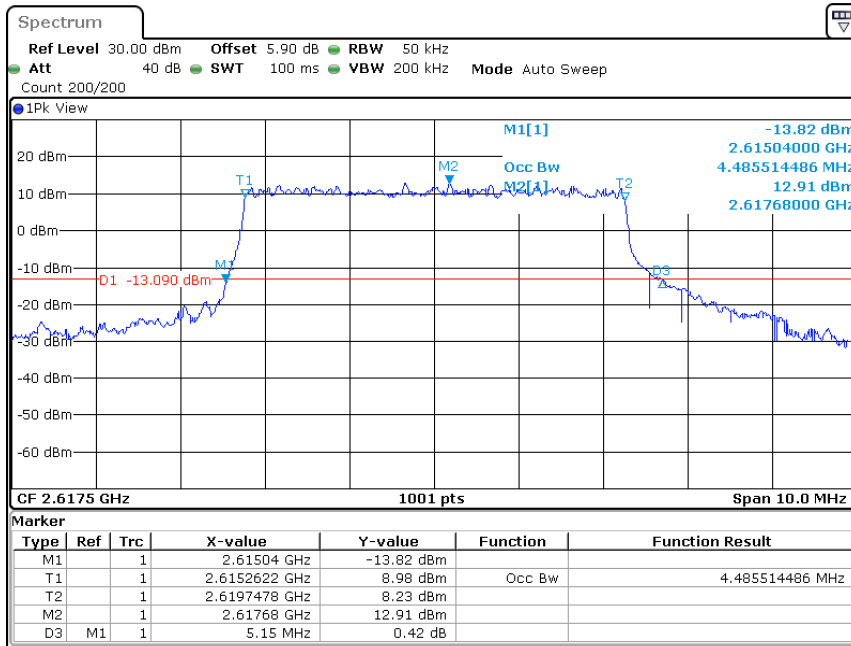


Date: 28.AUG.2020 20:35:21



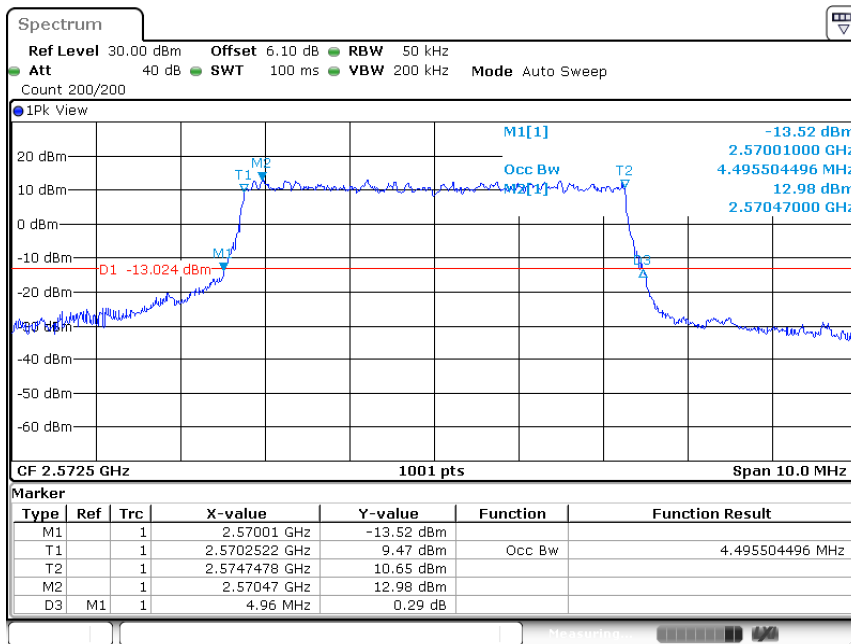
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**Band38-5MHz-64QAM-38225-25RB#0-4.486**



Date: 28.AUG.2020 20:35:54

**Band38-5MHz-16QAM-37775-25RB#0-4.496**



Date: 14.AUG.2020 12:16:00

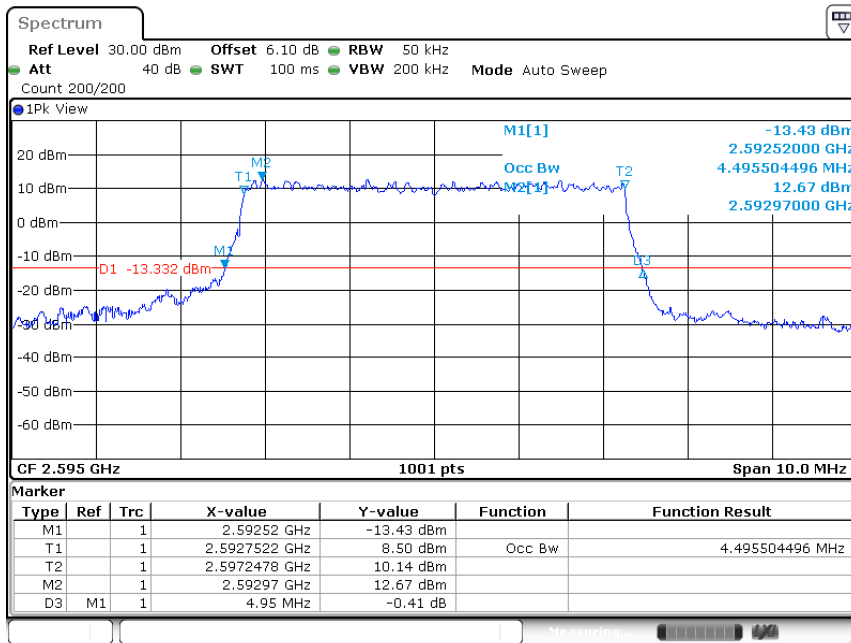


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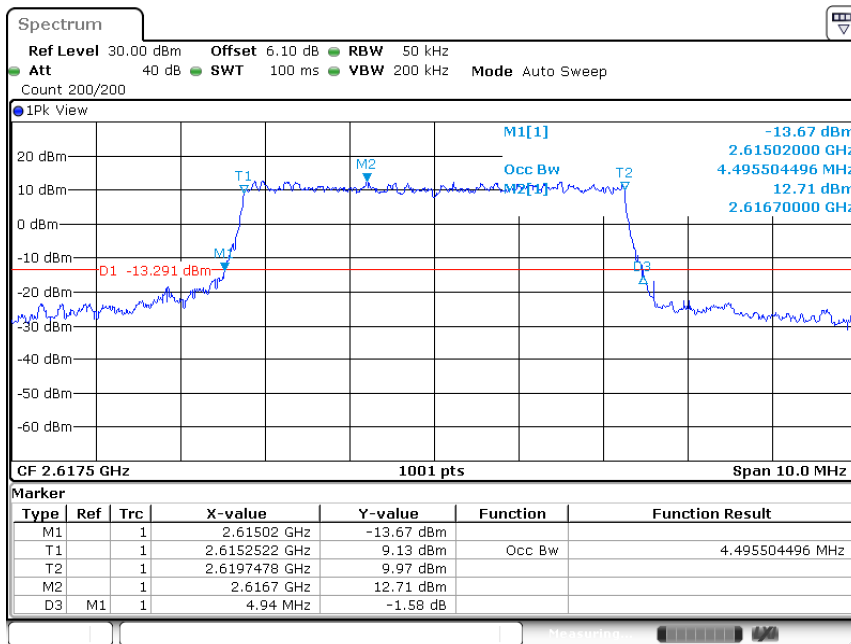
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 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

**Band38-5MHz-16QAM-38000-25RB#0-4.496**



Date: 14.AUG.2020 12:17:06

**Band38-5MHz-16QAM-38225-25RB#0-4.496**



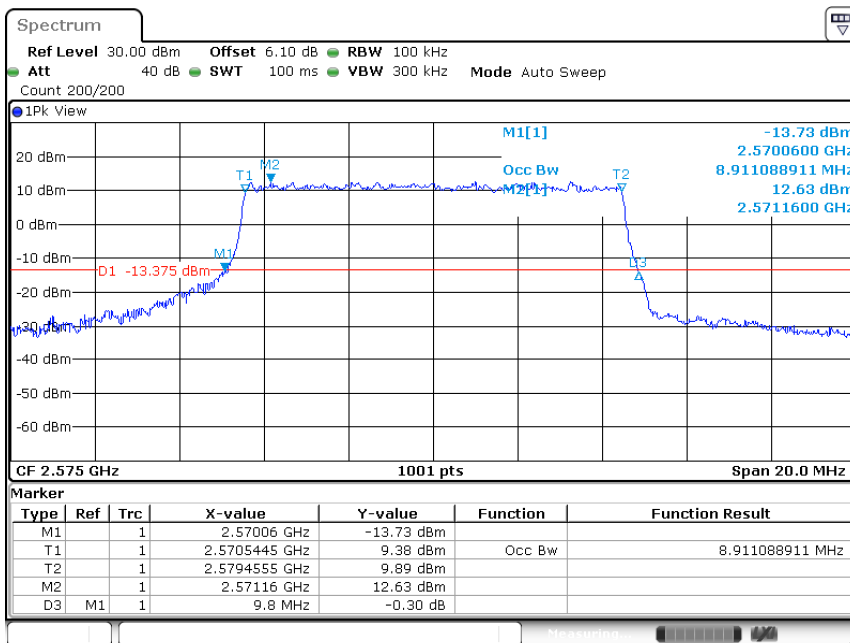
Date: 14.AUG.2020 12:18:12



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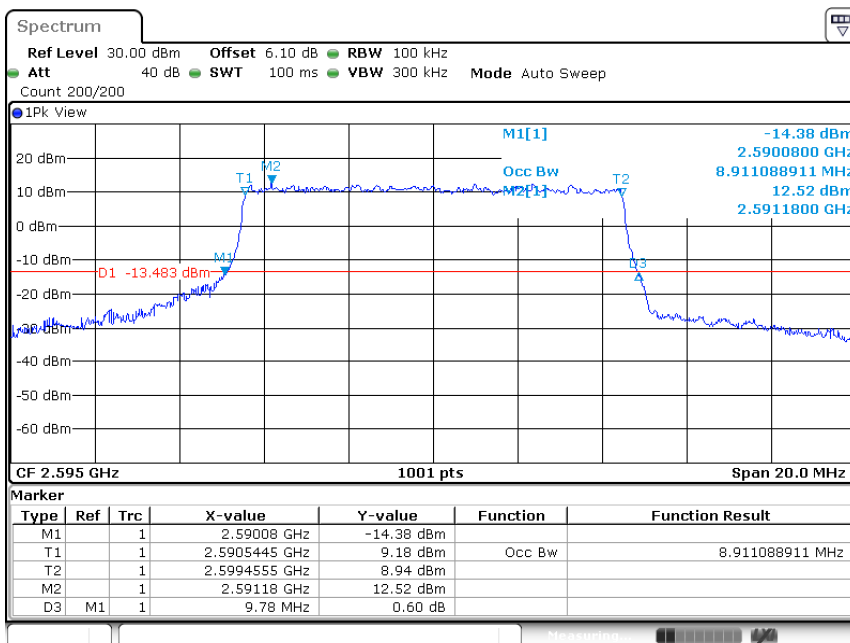


**Band38-10MHz-QPSK-37800-50RB#0-8.911**



Date: 14.AUG.2020 12:18:50

**Band38-10MHz-QPSK-38000-50RB#0-8.911**

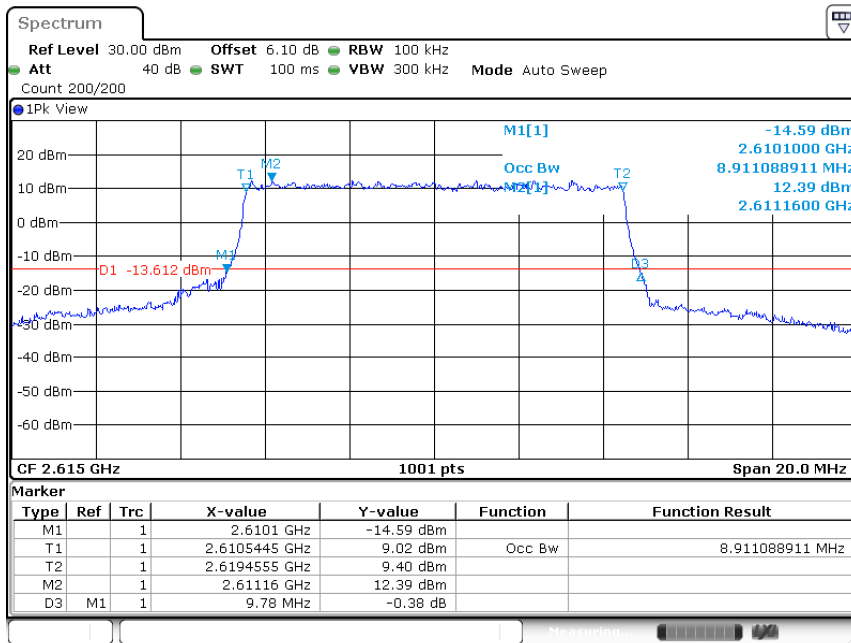


Date: 14.AUG.2020 12:19:56



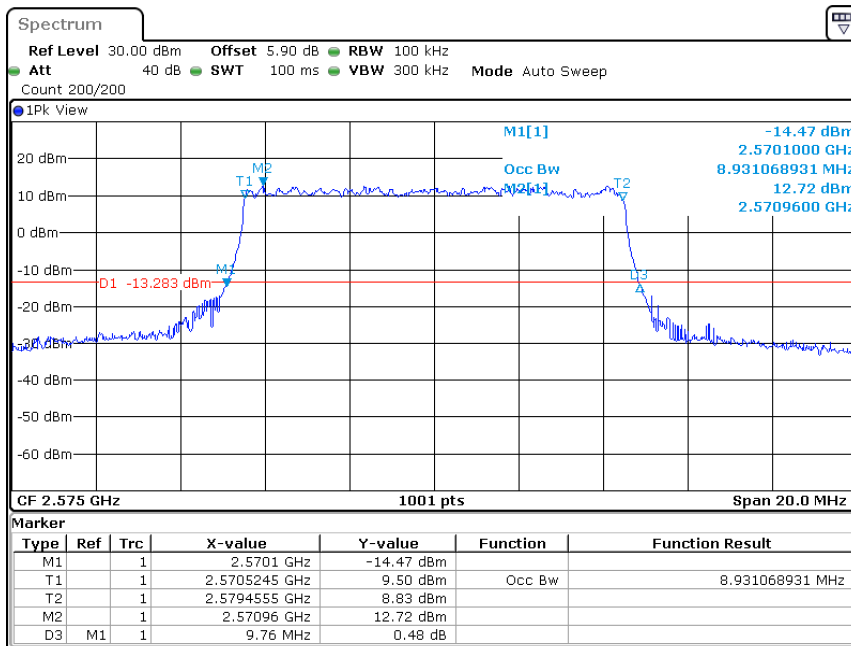
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**Band38-10MHz-QPSK-38200-50RB#0-8.911**



Date: 14.AUG.2020 12:21:02

**Band38-10MHz-64QAM-37800-50RB#0-8.931**

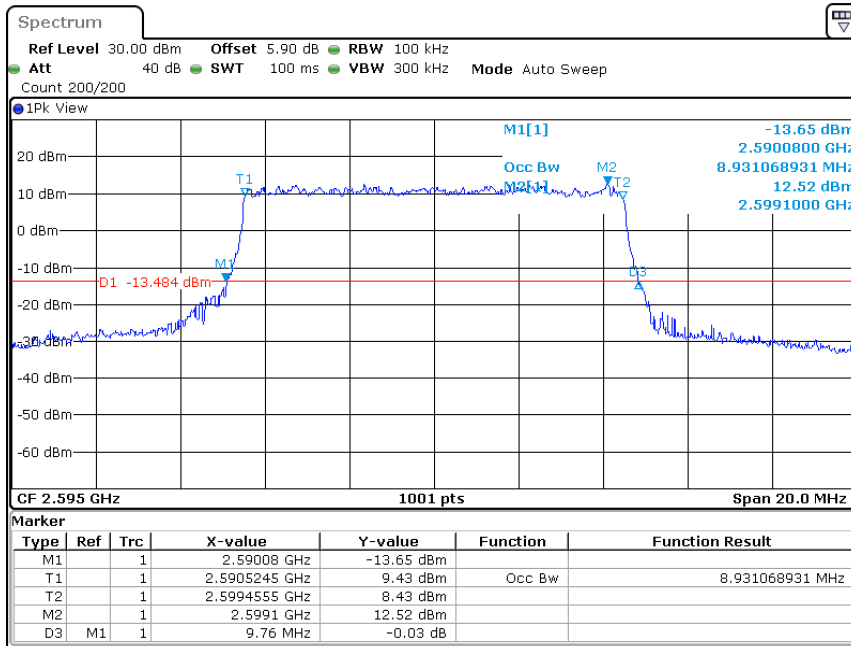


Date: 28.AUG.2020 20:36:32



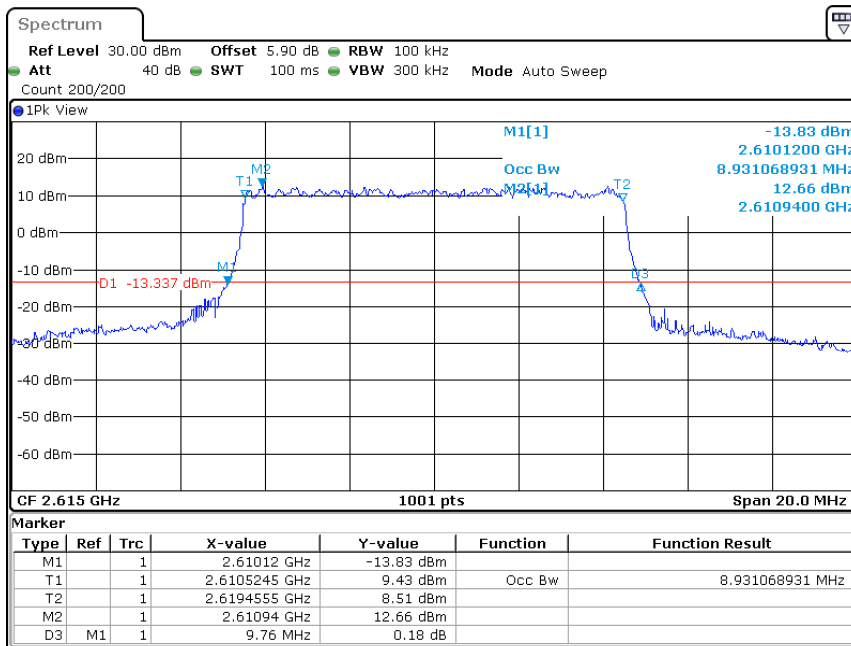
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**Band38-10MHz-64QAM-38000-50RB#0-8.931**



Date: 28.AUG.2020 20:37:05

**Band38-10MHz-64QAM-38200-50RB#0-8.931**

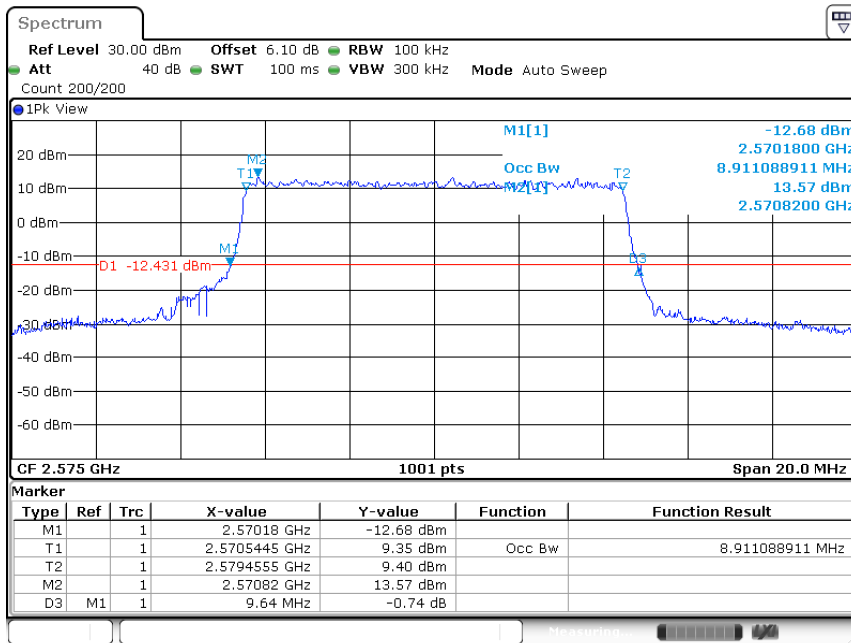


Date: 28.AUG.2020 20:37:38



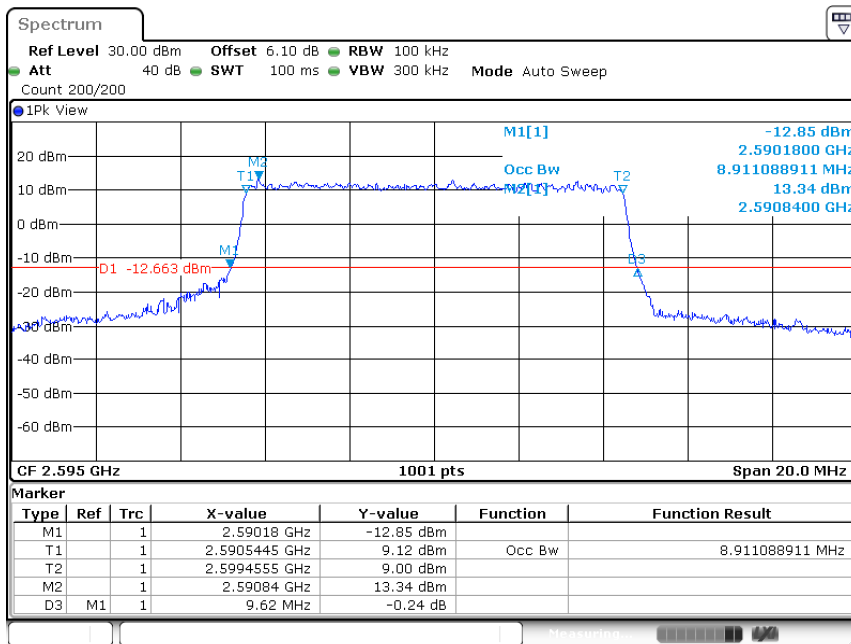
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**Band38-10MHz-16QAM-37800-50RB#0-8.911**



Date: 14.AUG.2020 12:19:23

**Band38-10MHz-16QAM-38000-50RB#0-8.911**

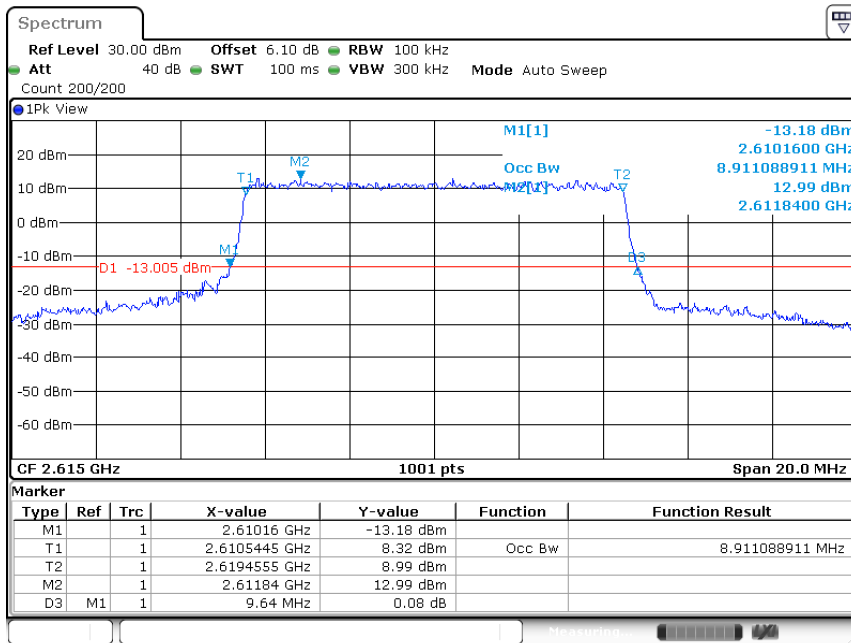


Date: 14.AUG.2020 12:20:29



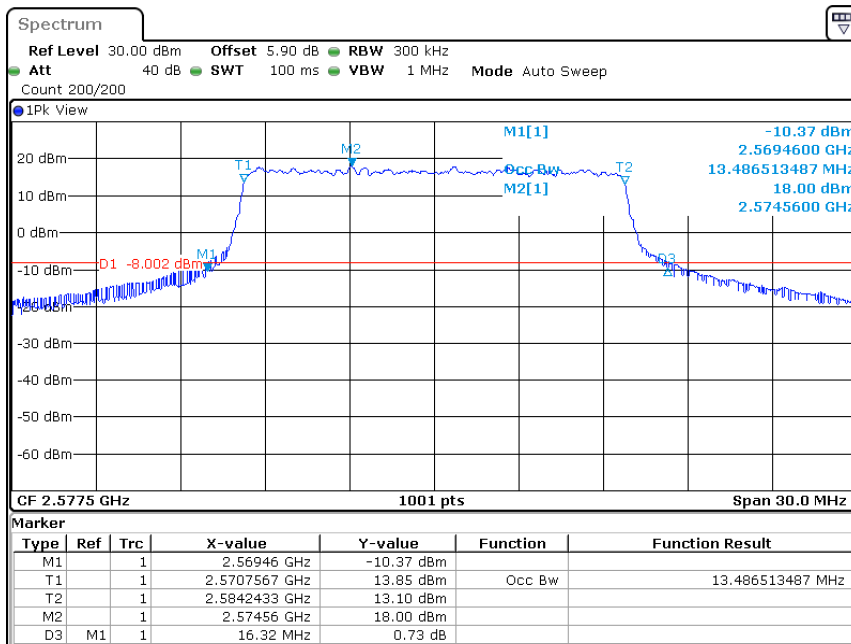
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**Band38-10MHz-16QAM-38200-50RB#0-8.911**



Date: 14.AUG.2020 12:21:35

**Band38-15MHz-QPSK-37825-75RB#0-13.487**

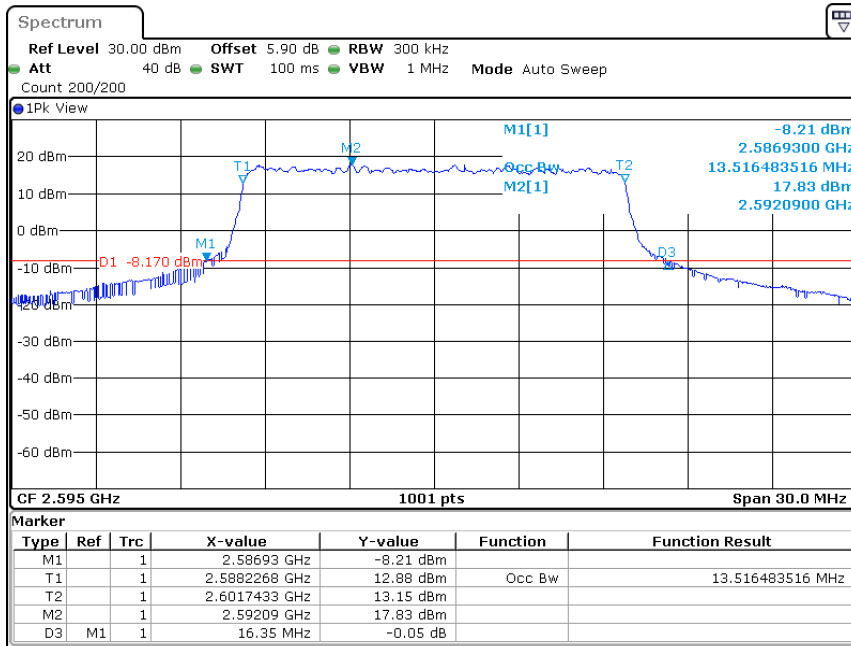


Date: 28.AUG.2020 21:14:31



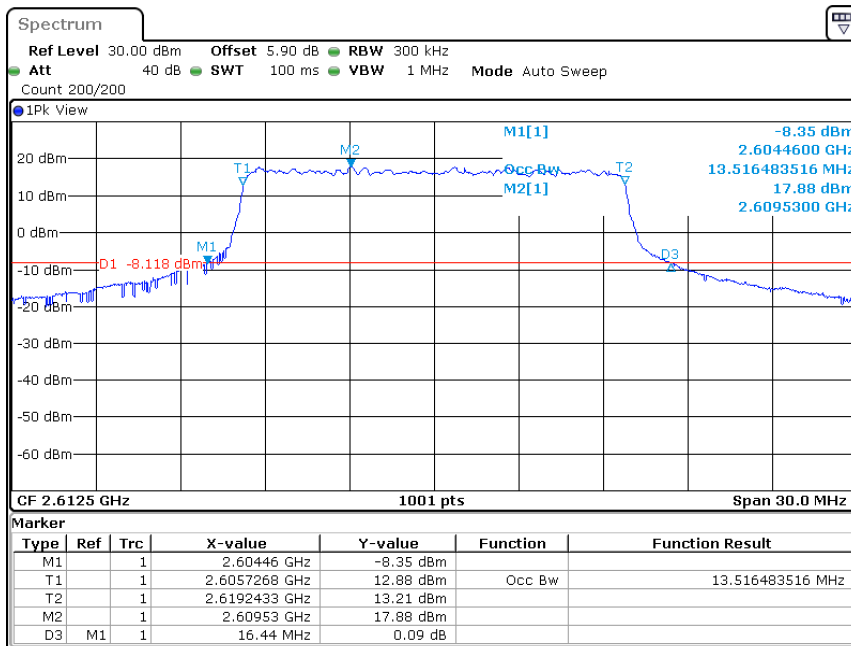
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**Band38-15MHz-QPSK-38000-75RB#0-13.516**



Date: 28.AUG.2020 21:16:55

**Band38-15MHz-QPSK-38175-75RB#0-13.516**

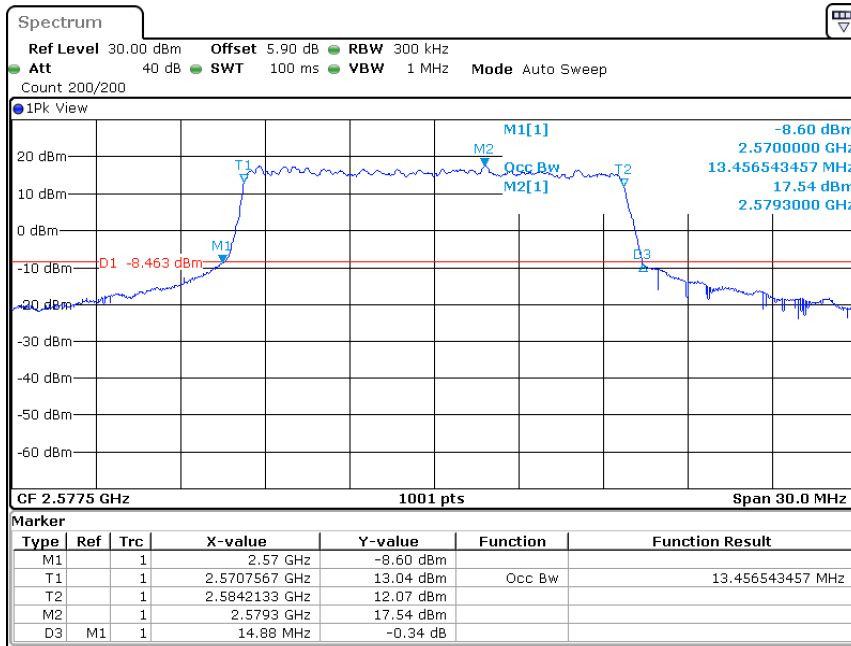


Date: 28.AUG.2020 21:20:15



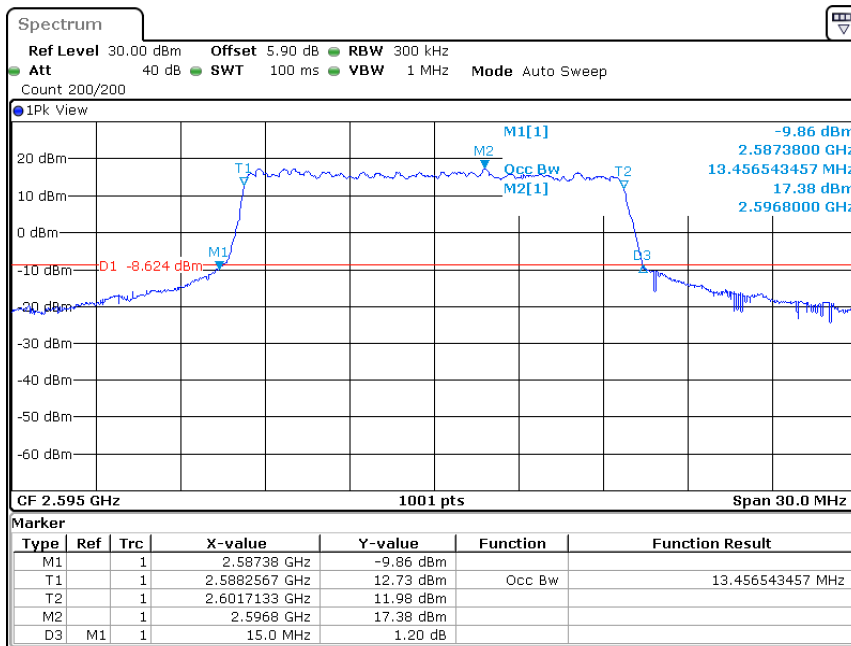
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**Band38-15MHz-64QAM-37825-75RB#0-13.457**



Date: 28.AUG.2020 21:25:25

**Band38-15MHz-64QAM-38000-75RB#0-13.457**

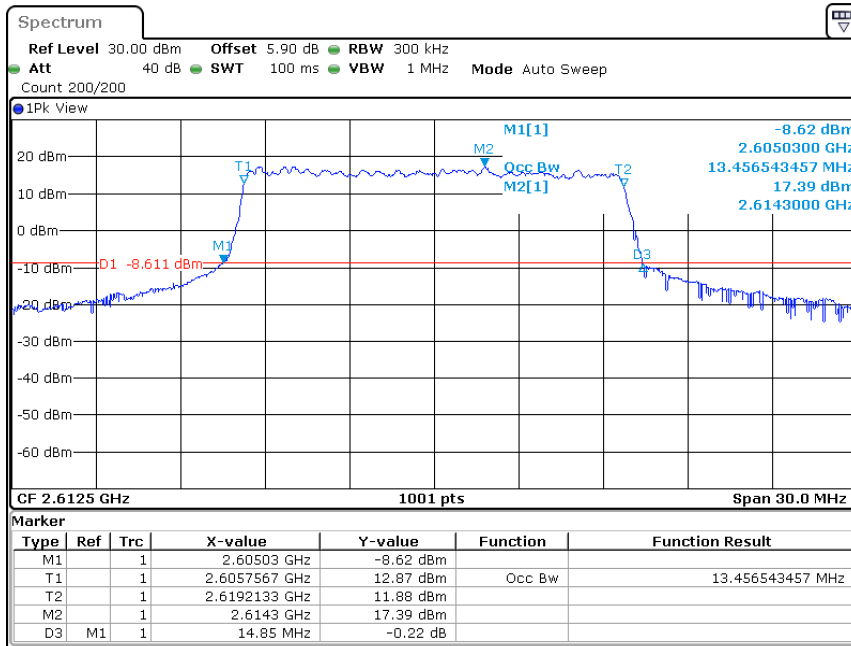


Date: 28.AUG.2020 21:26:15



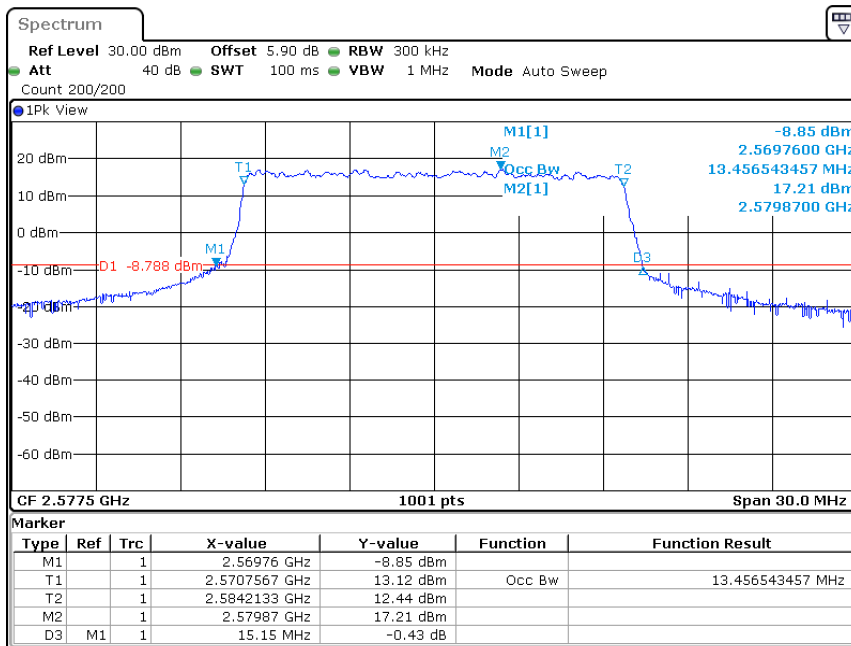
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**Band38-15MHz-64QAM-38175-75RB#0-13.457**



Date: 28.AUG.2020 21:27:04

**Band38-15MHz-16QAM-37825-75RB#0-13.457**



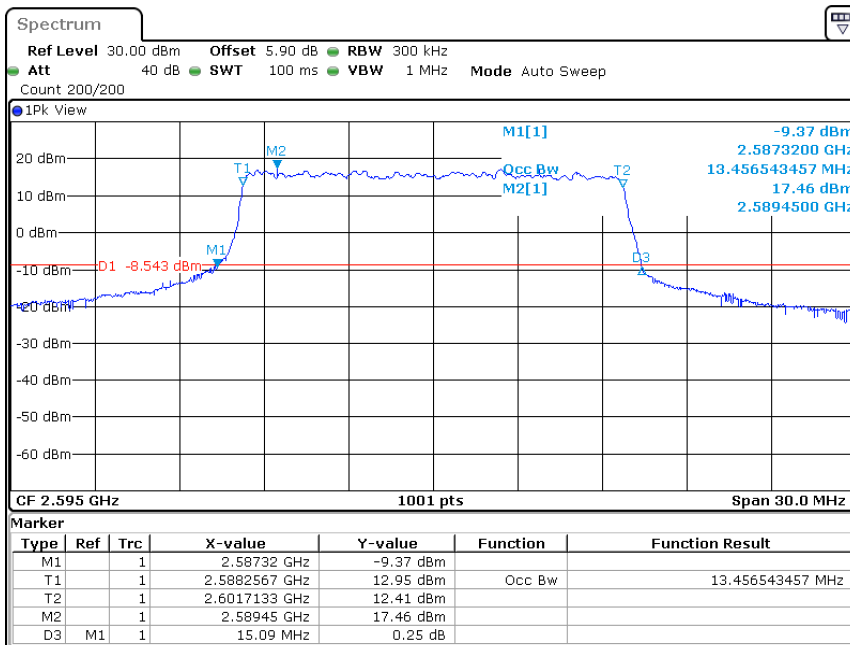
Date: 28.AUG.2020 21:15:17



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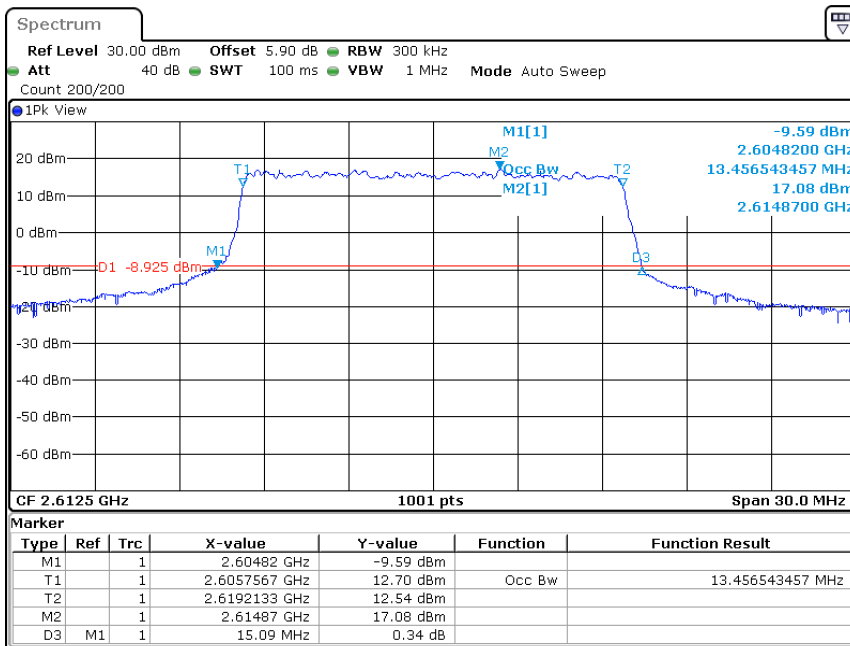


**Band38-15MHz-16QAM-38000-75RB#0-13.457**



Date: 28.AUG.2020 21:17:54

**Band38-15MHz-16QAM-38175-75RB#0-13.457**



Date: 28.AUG.2020 21:21:04

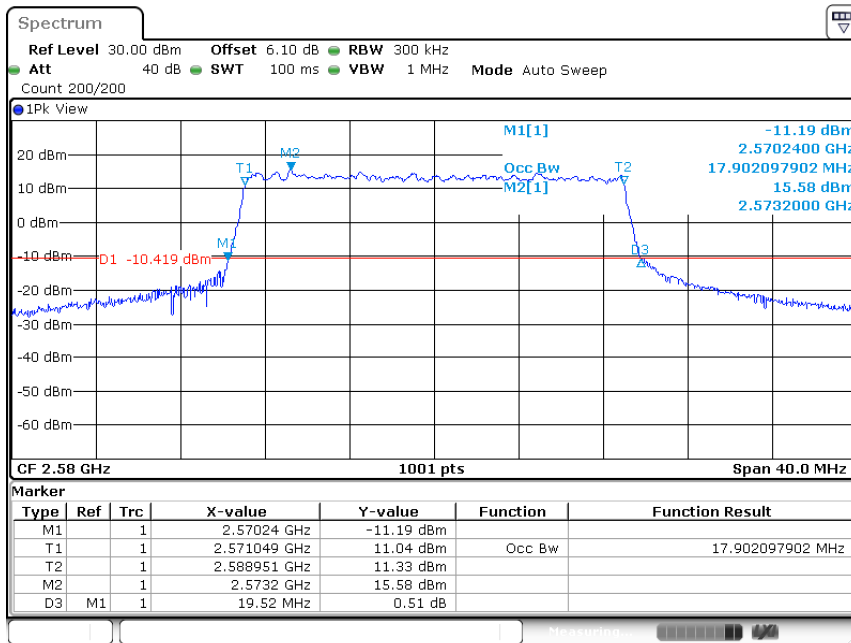


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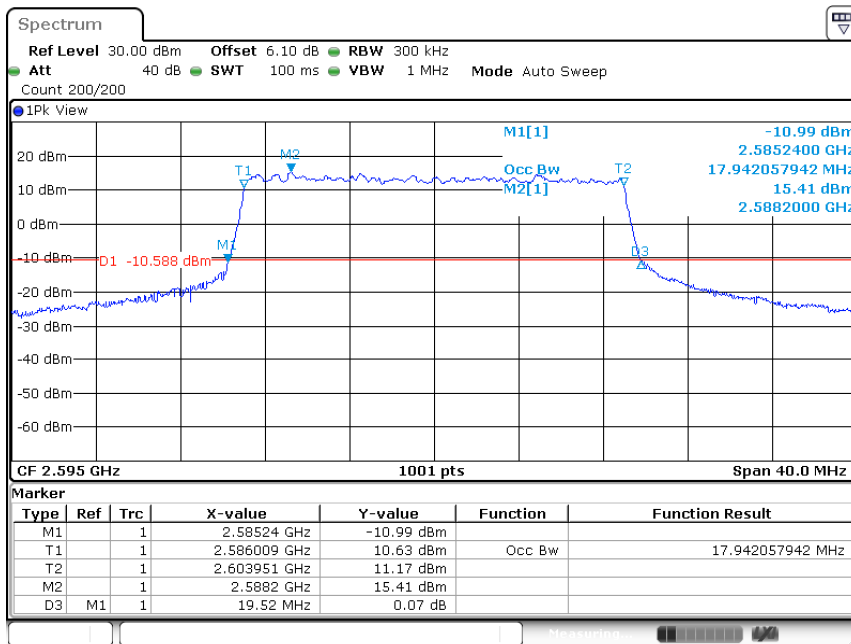
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

**Band38-20MHz-QPSK-37850-100RB#0-17.902**



Date: 14.AUG.2020 13:50:53

**Band38-20MHz-QPSK-38000-100RB#0-17.942**

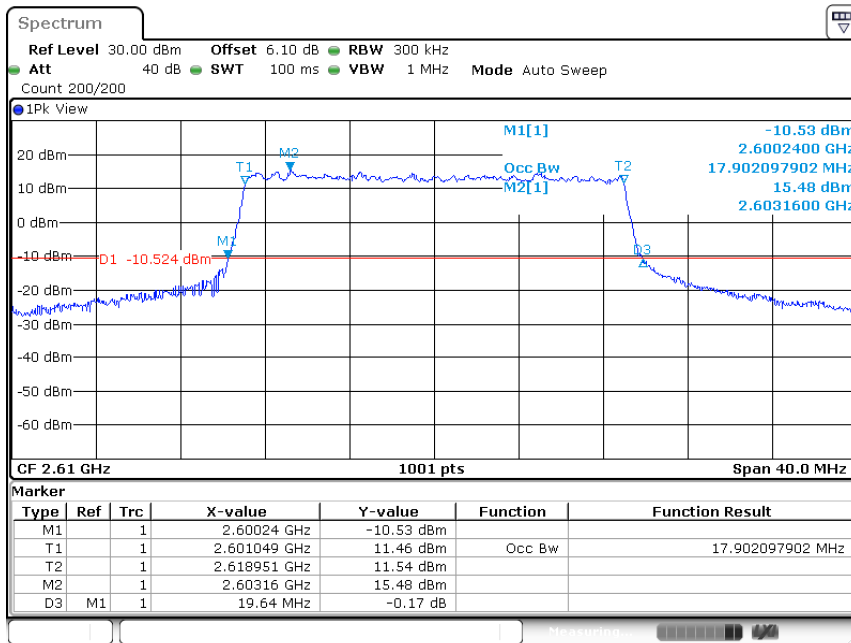


Date: 14.AUG.2020 13:53:51



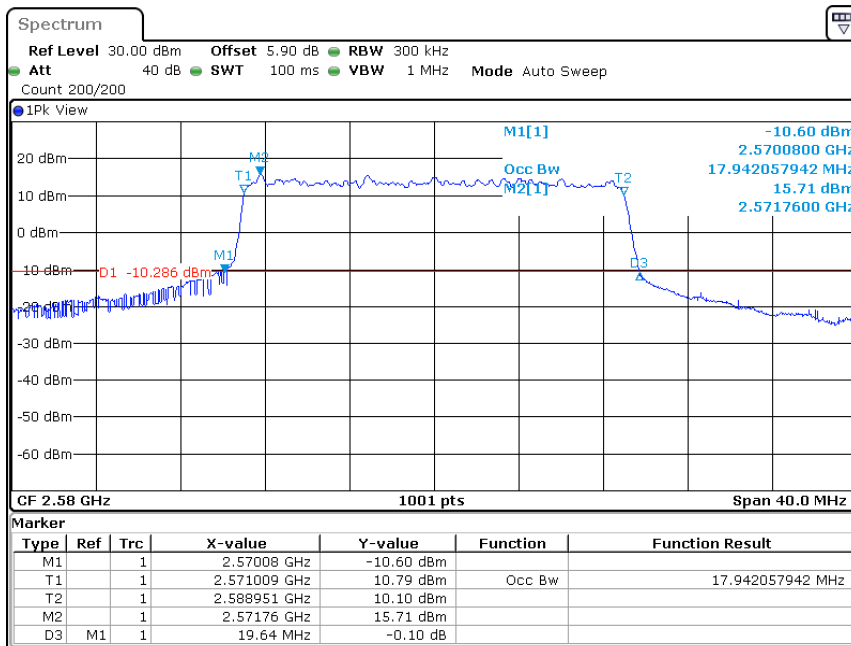
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**Band38-20MHz-QPSK-38150-100RB#0-17.902**



Date: 14.AUG.2020 13:59:23

**Band38-20MHz-64QAM-37850-100RB#0-17.942**

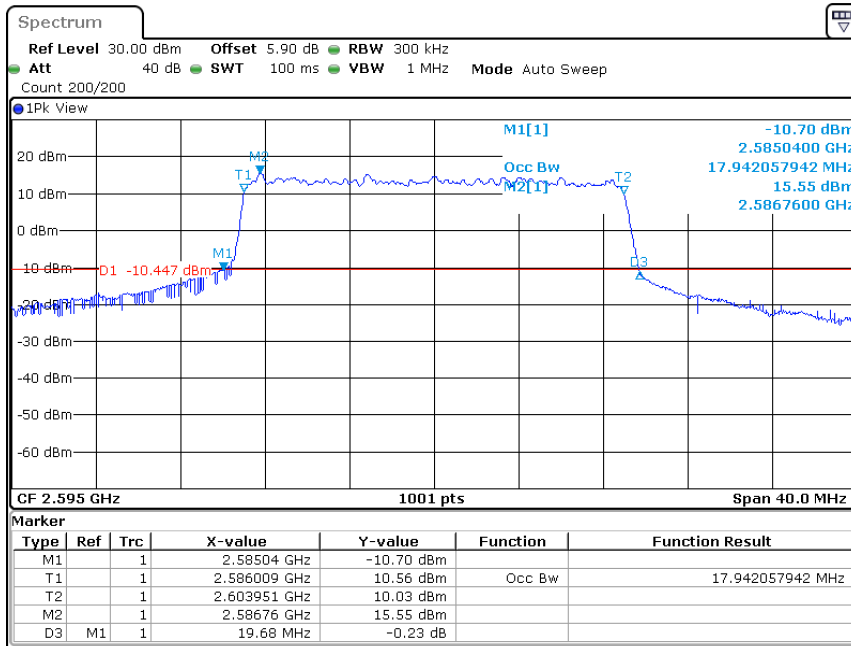


Date: 28.AUG.2020 20:41:55



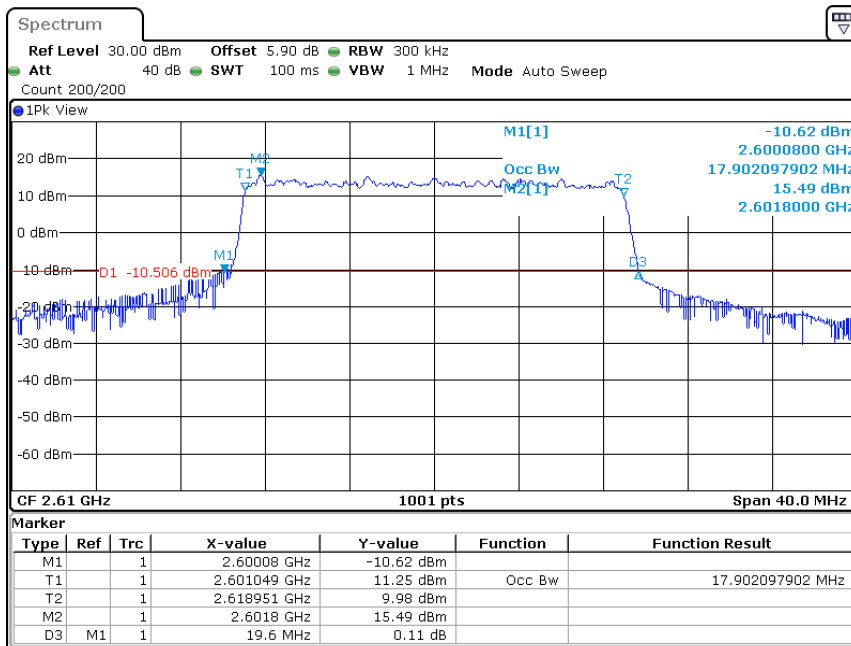
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**Band38-20MHz-64QAM-38000-100RB#0-17.942**



Date: 28.AUG.2020 20:43:30

**Band38-20MHz-64QAM-38150-100RB#0-17.902**

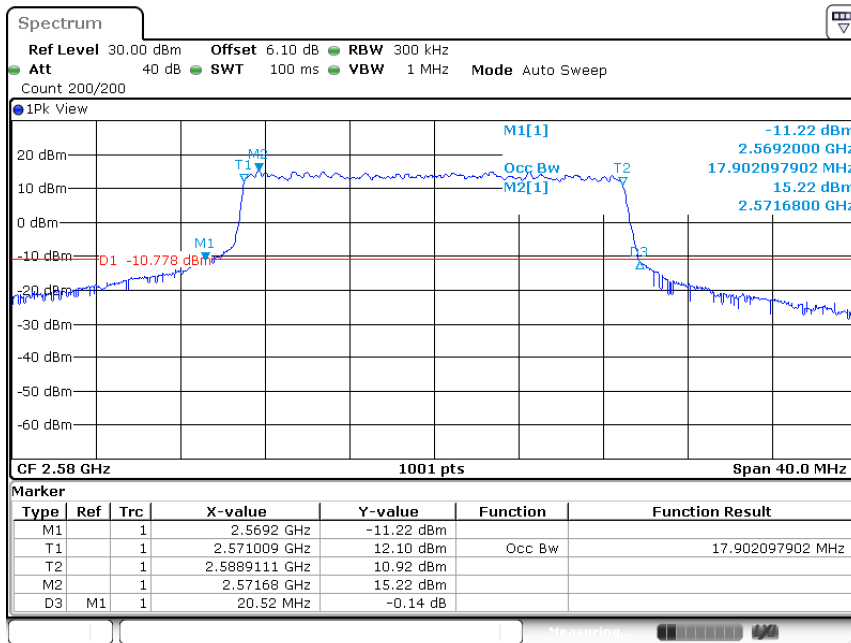


Date: 28.AUG.2020 20:44:04



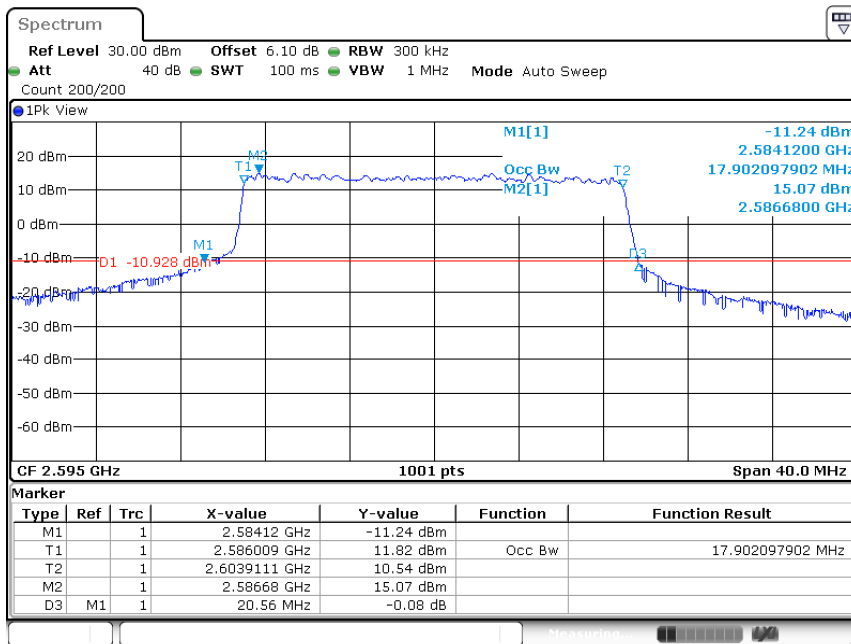
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**Band38-20MHz-16QAM-37850-100RB#0-17.902**



Date: 14.AUG.2020 13:52:49

**Band38-20MHz-16QAM-38000-100RB#0-17.902**

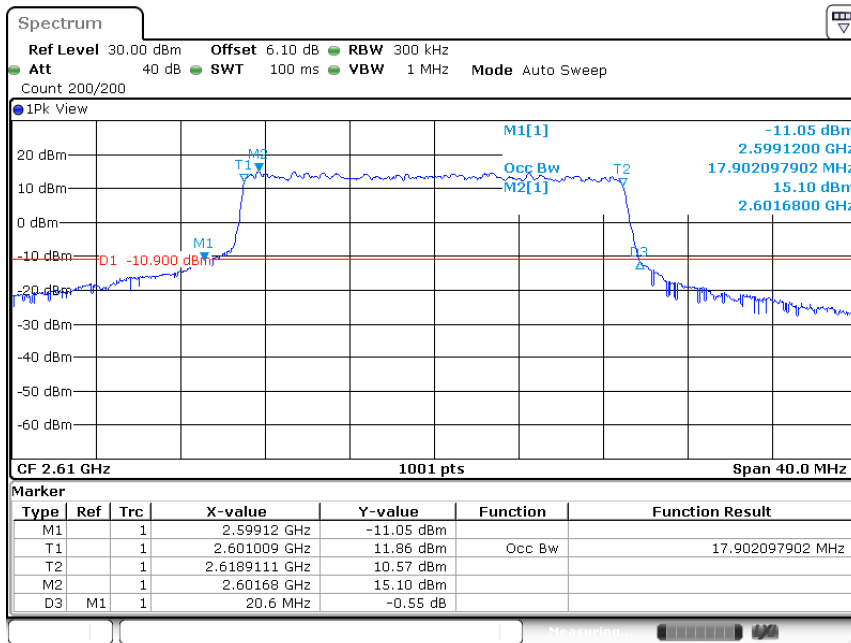


Date: 14.AUG.2020 13:58:48



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**Band38-20MHz-16QAM-38150-100RB#0-17.902**



Date: 14.AUG.2020 14:01:30



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## 5. Band Edge Compliance

### 5.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	-49.50,-49.49,-17.42	PASS
Band38	5MHz	QPSK	37775	25RB#0	-45.07,-44.17,-26.84	PASS
Band38	5MHz	QPSK	38225	1RB#24	-51.05,-51.01,-19.06	PASS
Band38	5MHz	QPSK	38225	25RB#0	-42.90,-43.31,-25.38	PASS
Band38	5MHz	64QAM	37775	1RB#0	-50.53,-50.03,-16.70	PASS
Band38	5MHz	64QAM	37775	25RB#0	-44.61,-42.94,-27.09	PASS
Band38	5MHz	64QAM	38225	1RB#24	-50.23,-49.32,-17.59	PASS
Band38	5MHz	64QAM	38225	25RB#0	-43.26,-41.93,-24.93	PASS
Band38	5MHz	16QAM	37775	1RB#0	-50.46,-50.52,-15.93	PASS
Band38	5MHz	16QAM	37775	25RB#0	-45.40,-43.40,-25.08	PASS
Band38	5MHz	16QAM	38225	1RB#24	-49.77,-49.66,-18.17	PASS
Band38	5MHz	16QAM	38225	25RB#0	-42.72,-41.43,-25.76	PASS
Band38	10MHz	QPSK	37800	1RB#0	-48.90,-47.34,-23.65	PASS
Band38	10MHz	QPSK	37800	50RB#0	-42.67,-39.29,-29.12	PASS
Band38	10MHz	QPSK	38200	1RB#49	-48.57,-45.34,-23.21	PASS
Band38	10MHz	QPSK	38200	50RB#0	-42.27,-37.64,-28.41	PASS
Band38	10MHz	64QAM	37800	1RB#0	-47.03,-43.08,-22.79	PASS
Band38	10MHz	64QAM	37800	50RB#0	-42.02,-37.72,-29.06	PASS
Band38	10MHz	64QAM	38200	1RB#49	-49.03,-44.53,-23.81	PASS
Band38	10MHz	64QAM	38200	50RB#0	-41.55,-37.82,-29.65	PASS
Band38	10MHz	16QAM	37800	1RB#0	-49.13,-47.72,-22.28	PASS
Band38	10MHz	16QAM	37800	50RB#0	-42.45,-38.16,-29.55	PASS
Band38	10MHz	16QAM	38200	1RB#49	-48.52,-44.45,-24.33	PASS
Band38	10MHz	16QAM	38200	50RB#0	-41.36,-36.77,-28.93	PASS
Band38	15MHz	QPSK	37825	1RB#0	-41.71,-36.22,-23.70	PASS
Band38	15MHz	QPSK	37825	75RB#0	-43.34,-38.54,-31.79	PASS
Band38	15MHz	QPSK	38175	1RB#74	-42.29,-40.27,-23.98	PASS
Band38	15MHz	QPSK	38175	75RB#0	-42.57,-37.39,-30.64	PASS
Band38	15MHz	64QAM	37825	1RB#0	-42.19,-36.96,-21.56	PASS
Band38	15MHz	64QAM	37825	75RB#0	-41.94,-36.85,-30.32	PASS
Band38	15MHz	64QAM	38175	1RB#74	-42.95,-41.88,-22.11	PASS
Band38	15MHz	64QAM	38175	75RB#0	-41.53,-37.67,-31.46	PASS



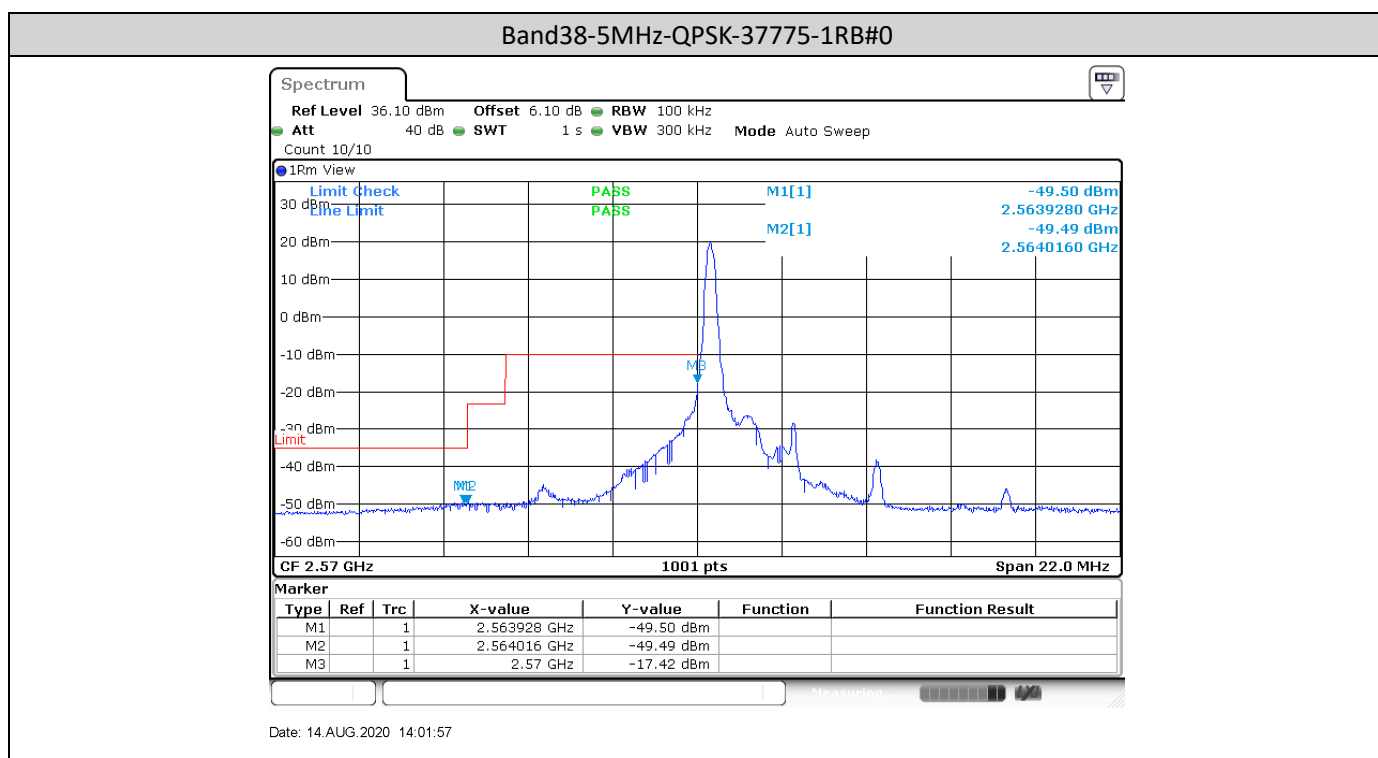
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Band38	15MHz	16QAM	37825	1RB#0	-41.57,-36.15,-23.86	PASS
Band38	15MHz	16QAM	37825	75RB#0	-42.09,-36.38,-31.69	PASS
Band38	15MHz	16QAM	38175	1RB#74	-42.67,-41.11,-22.33	PASS
Band38	15MHz	16QAM	38175	75RB#0	-41.49,-36.25,-30.28	PASS
Band38	20MHz	QPSK	37850	1RB#0	-45.34,-38.73,-22.36	PASS
Band38	20MHz	QPSK	37850	100RB#0	-41.44,-36.90,-31.57	PASS
Band38	20MHz	QPSK	38150	1RB#99	-45.32,-41.54,-23.10	PASS
Band38	20MHz	QPSK	38150	100RB#0	-40.99,-37.30,-30.74	PASS
Band38	20MHz	64QAM	37850	1RB#0	-45.37,-39.02,-20.65	PASS
Band38	20MHz	64QAM	37850	100RB#0	-40.42,-35.30,-31.35	PASS
Band38	20MHz	64QAM	38150	1RB#99	-45.38,-40.93,-20.02	PASS
Band38	20MHz	64QAM	38150	100RB#0	-40.25,-36.55,-31.74	PASS
Band38	20MHz	16QAM	37850	1RB#0	-45.30,-38.30,-20.99	PASS
Band38	20MHz	16QAM	37850	100RB#0	-40.97,-34.88,-30.38	PASS
Band38	20MHz	16QAM	38150	1RB#99	-45.09,-40.64,-22.77	PASS
Band38	20MHz	16QAM	38150	100RB#0	-40.37,-35.63,-31.72	PASS

## 5.2. Test Plots



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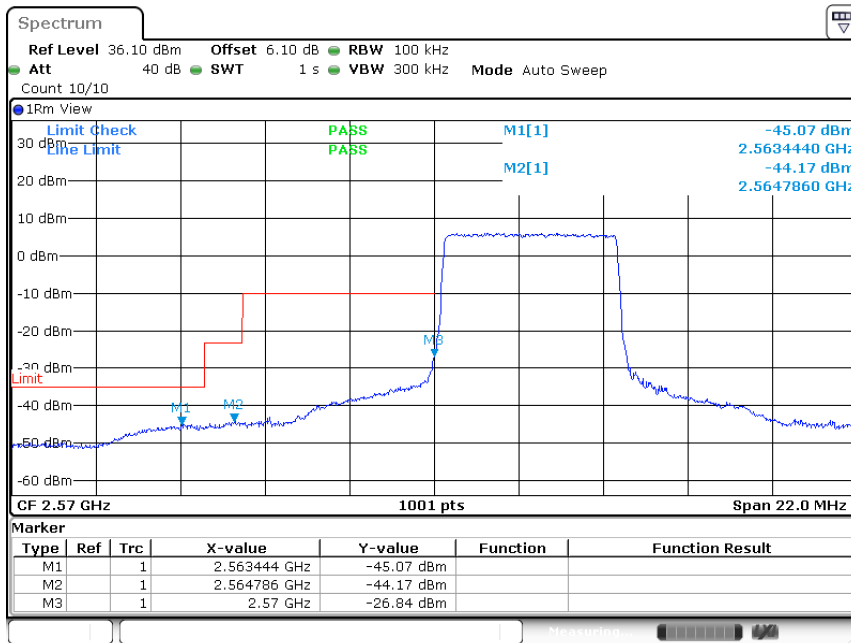
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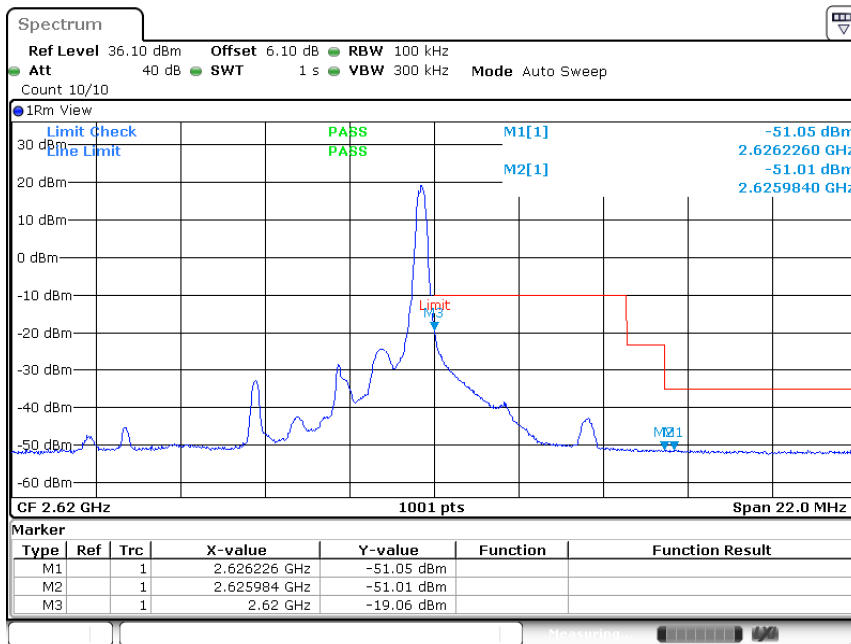


**Band38-5MHz-QPSK-37775-25RB#0**



Date: 14.AUG.2020 14:05:27

**Band38-5MHz-QPSK-38225-1RB#24**

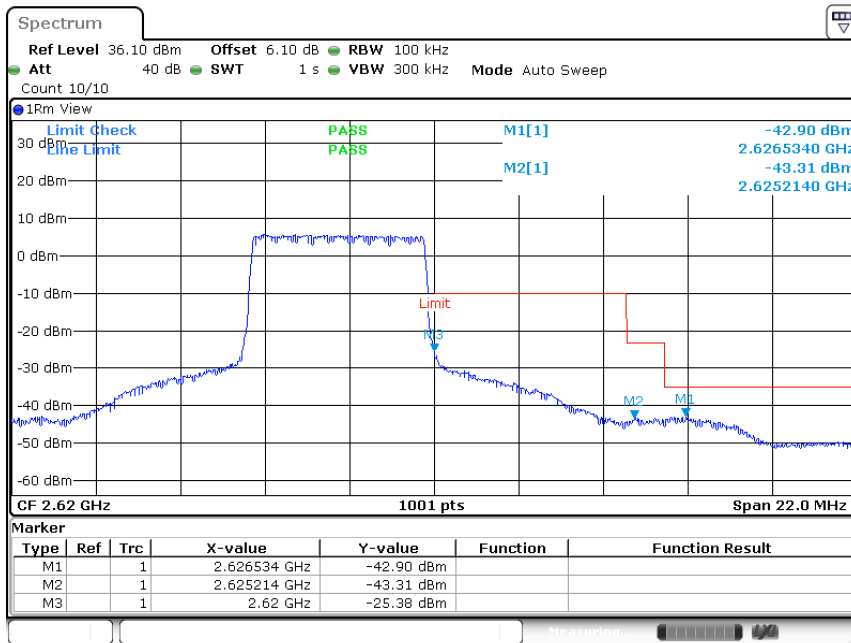


Date: 14.AUG.2020 14:03:26



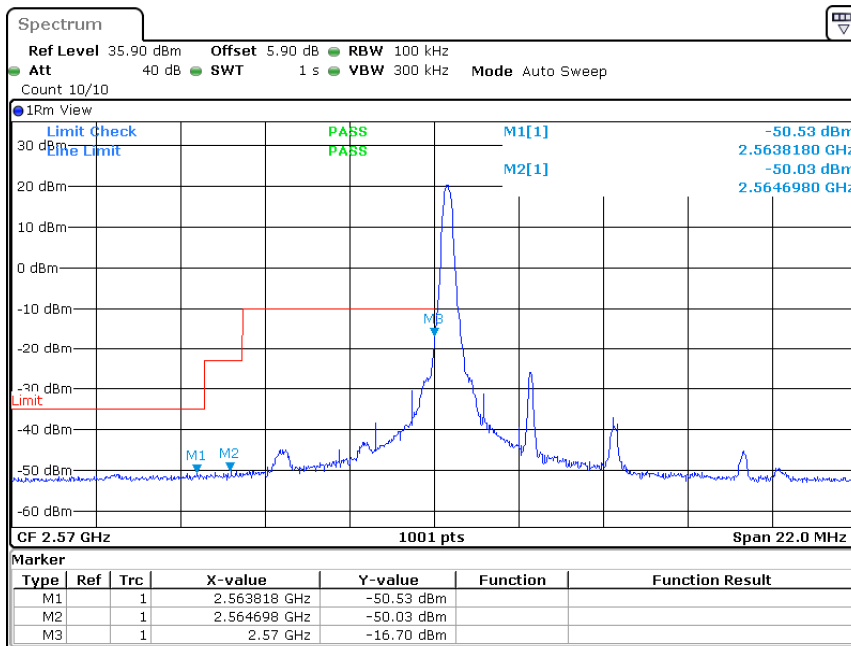
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**Band38-5MHz-QPSK-38225-25RB#0**



Date: 14.AUG.2020 14:06:39

**Band38-5MHz-64QAM-37775-1RB#0**

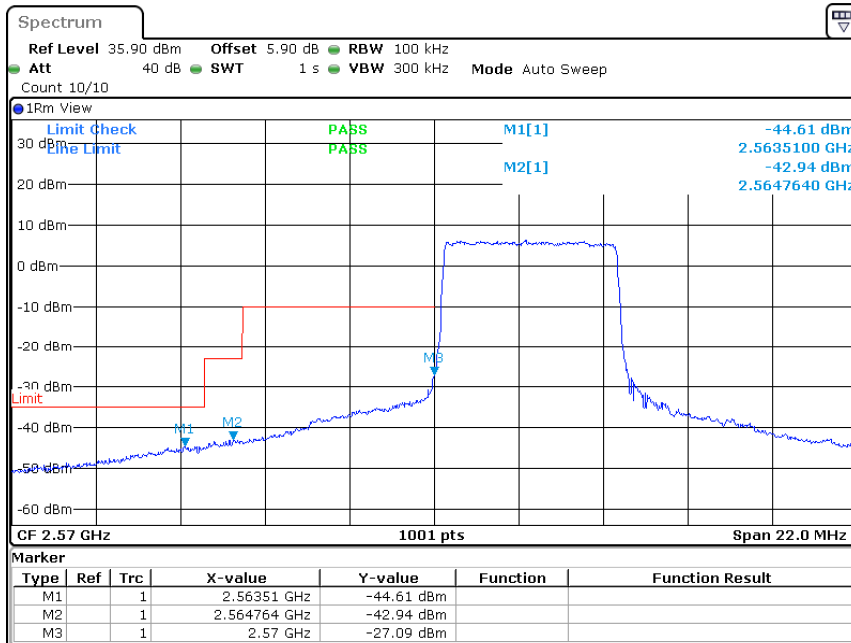


Date: 28.AUG.2020 20:44:30



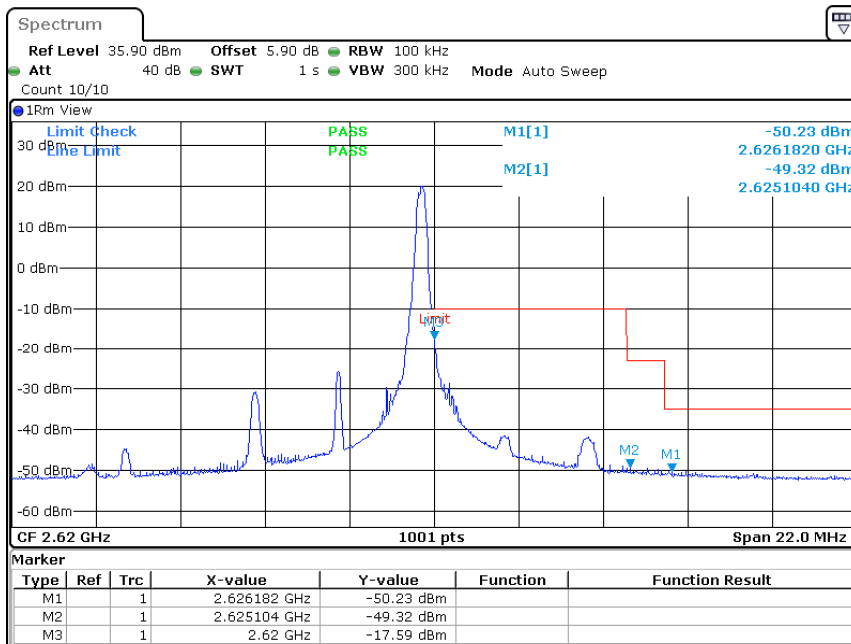
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**Band38-5MHz-64QAM-37775-25RB#0**



Date: 28.AUG.2020 20:47:22

**Band38-5MHz-64QAM-38225-1RB#24**

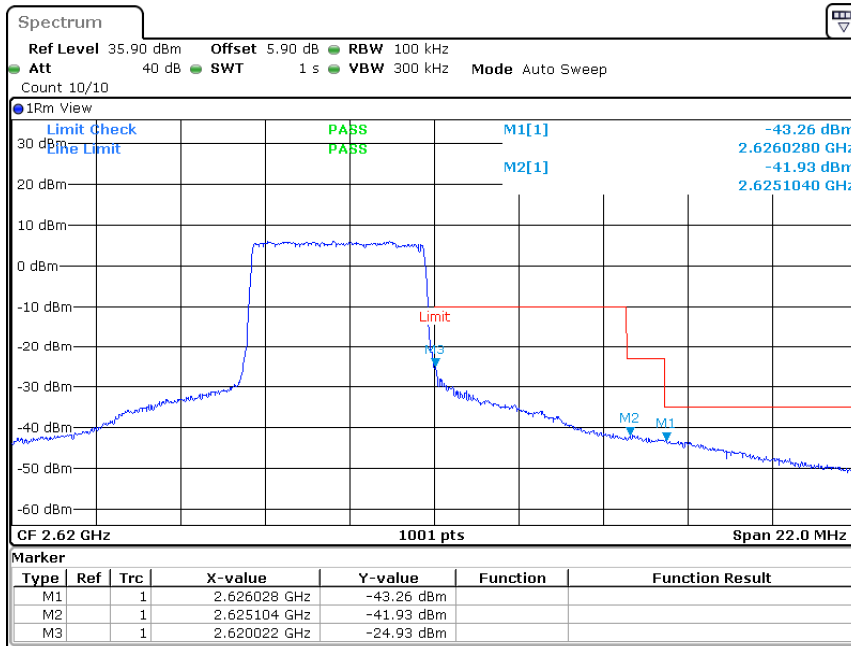


Date: 28.AUG.2020 20:46:56



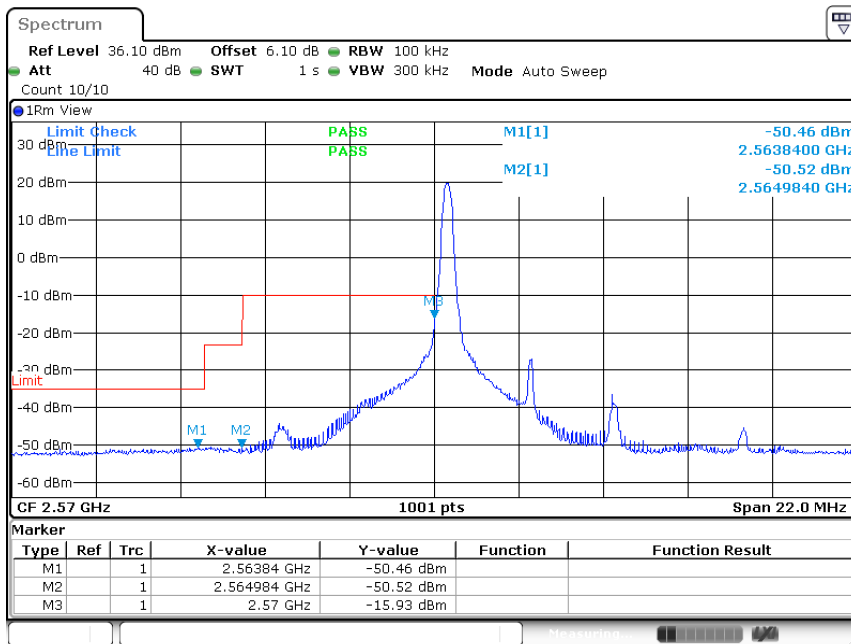
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**Band38-5MHz-64QAM-38225-25RB#0**



Date: 28.AUG.2020 20:48:13

**Band38-5MHz-16QAM-37775-1RB#0**

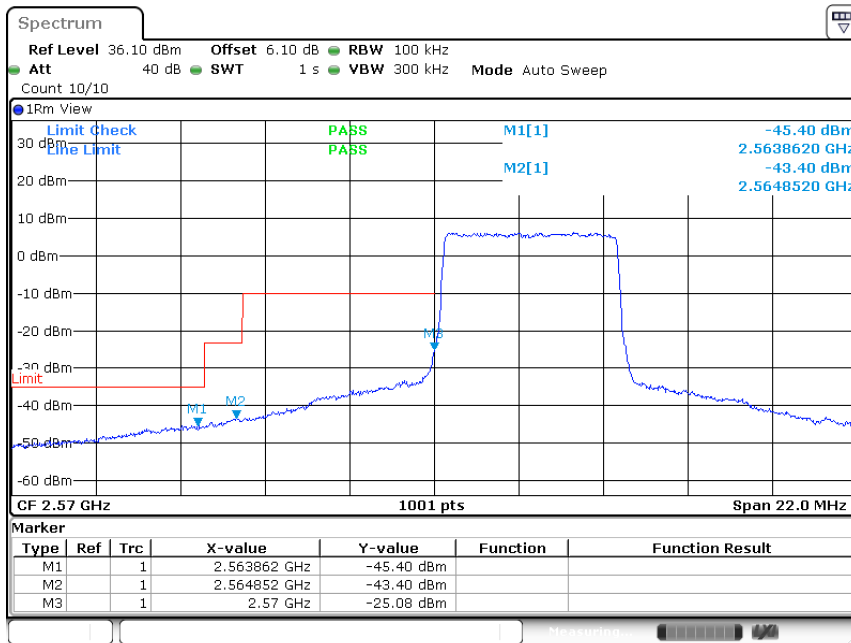


Date: 14.AUG.2020 14:02:19



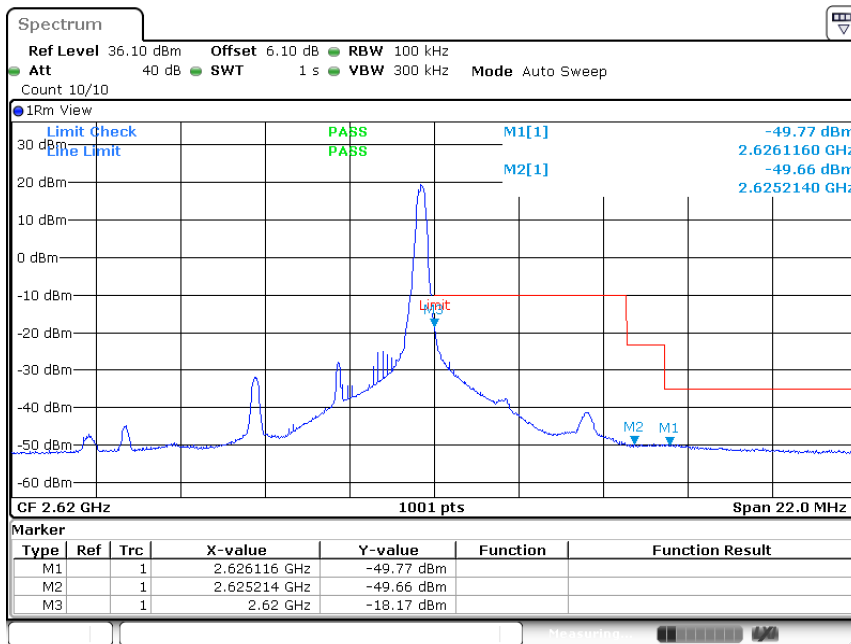
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**Band38-5MHz-16QAM-37775-25RB#0**



Date: 14.AUG.2020 14:05:48

**Band38-5MHz-16QAM-38225-1RB#24**

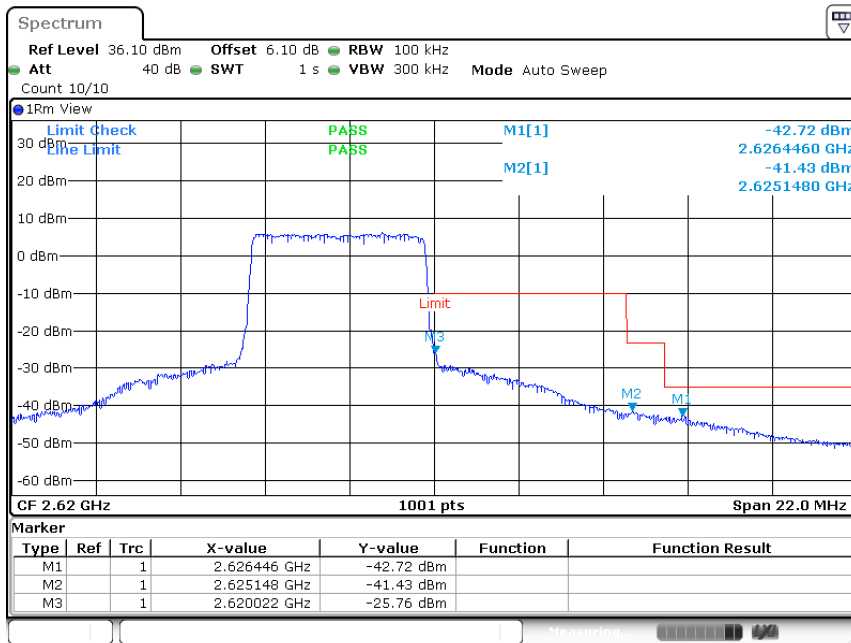


Date: 14.AUG.2020 14:05:00



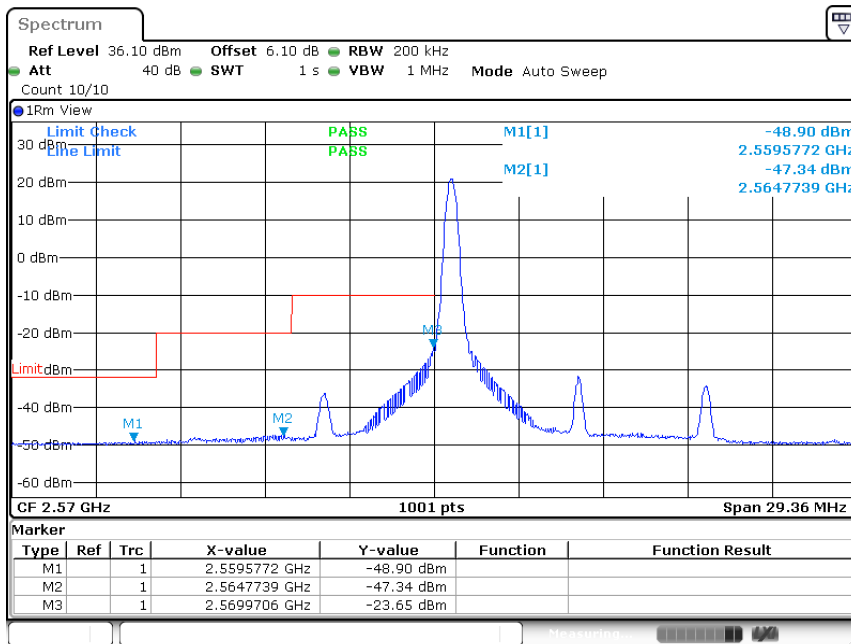
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**Band38-5MHz-16QAM-38225-25RB#0**



Date: 14.AUG.2020 14:07:28

**Band38-10MHz-QPSK-37800-1RB#0**



Date: 13.AUG.2020 21:42:19

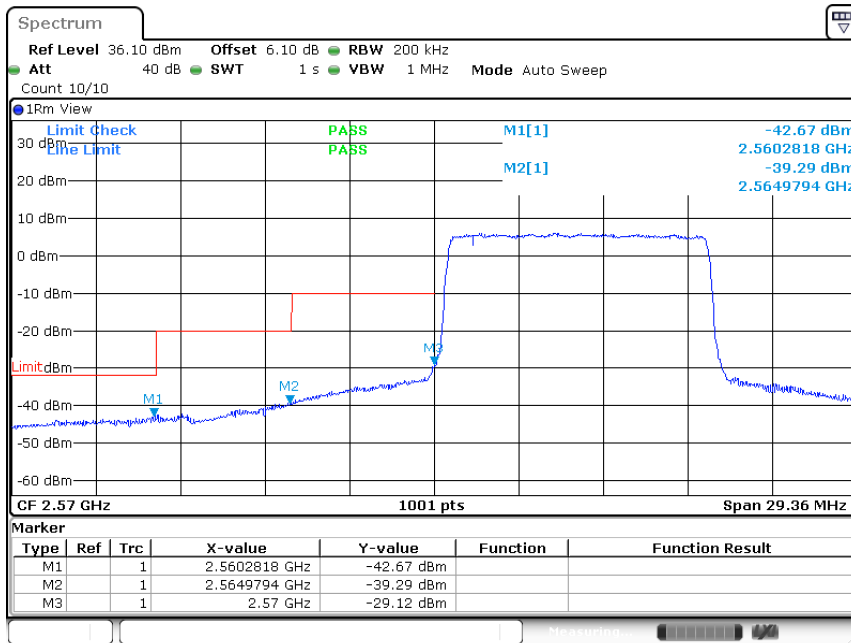


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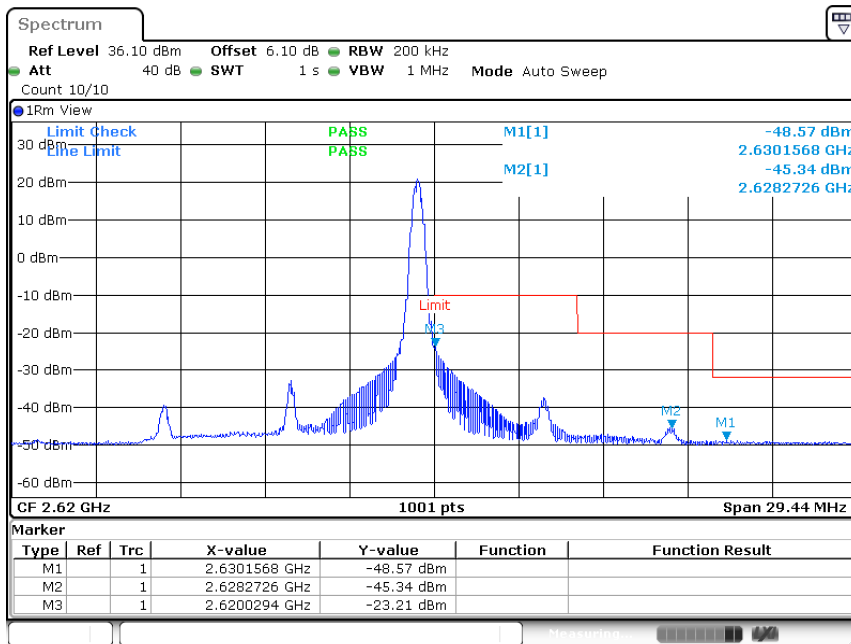
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**Band38-10MHz-QPSK-37800-50RB#0**



Date: 13.AUG.2020 21:43:54

**Band38-10MHz-QPSK-38200-1RB#49**

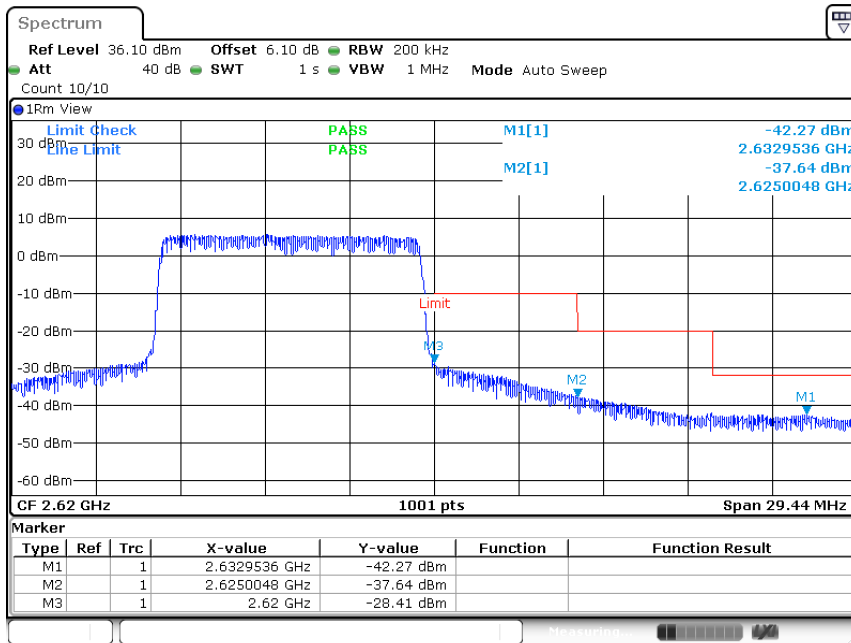


Date: 13.AUG.2020 21:43:07



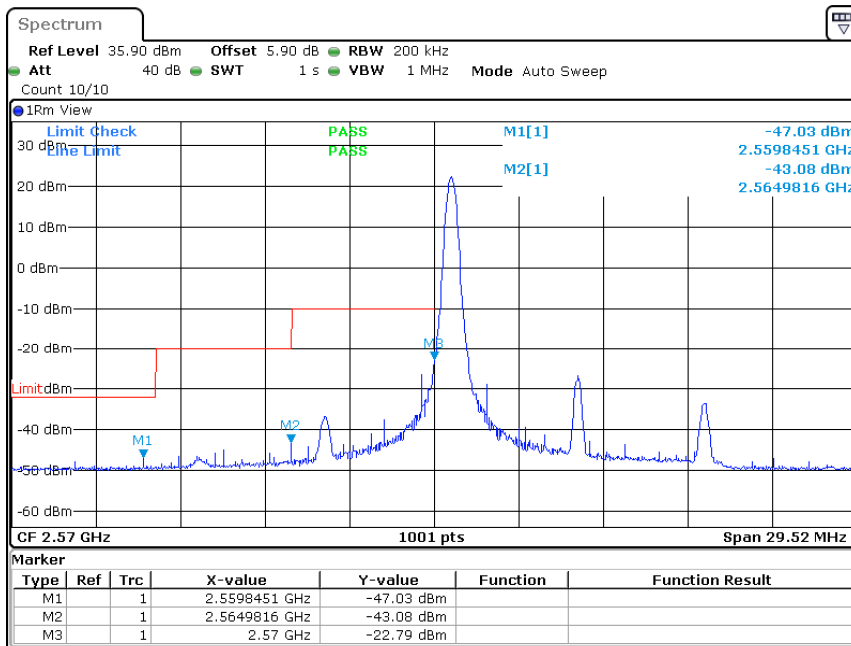
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**Band38-10MHz-QPSK-38200-50RB#0**



Date: 13.AUG.2020 21:44:38

**Band38-10MHz-64QAM-37800-1RB#0**



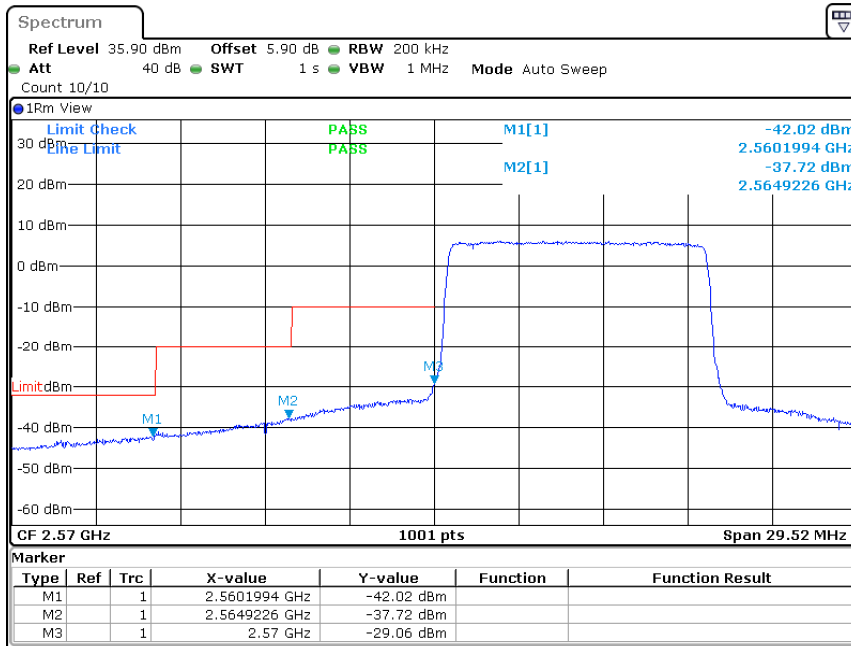
Date: 28.AUG.2020 20:48:41



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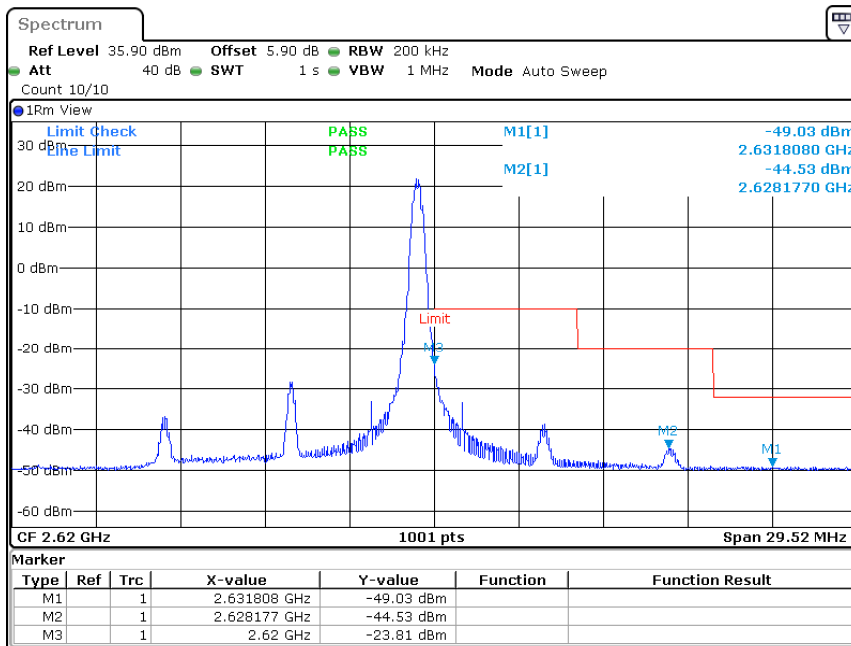


**Band38-10MHz-64QAM-37800-50RB#0**



Date: 28.AUG.2020 20:49:34

**Band38-10MHz-64QAM-38200-1RB#49**

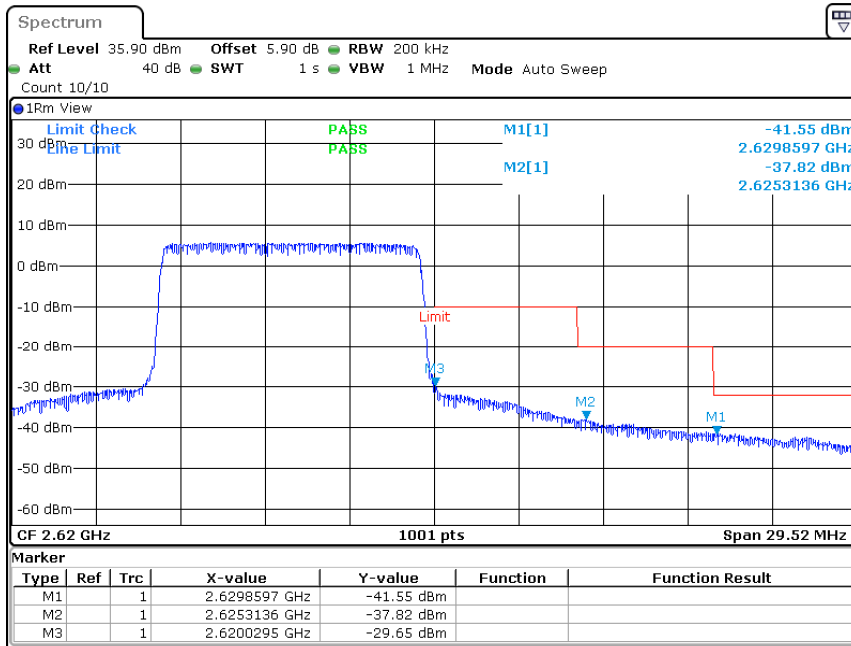


Date: 28.AUG.2020 20:49:08



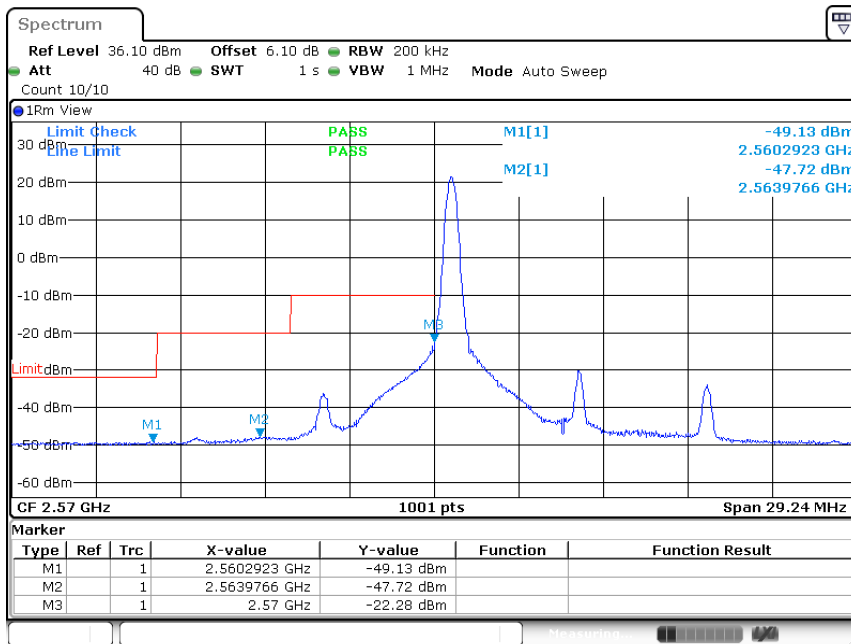
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**Band38-10MHz-64QAM-38200-50RB#0**



Date: 28.AUG.2020 20:49:56

**Band38-10MHz-16QAM-37800-1RB#0**

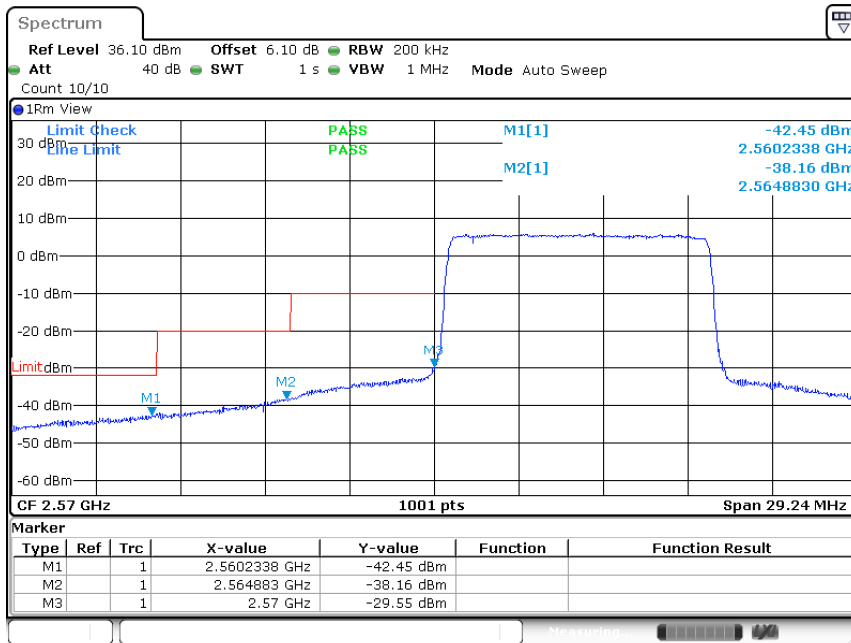


Date: 13.AUG.2020 21:42:41



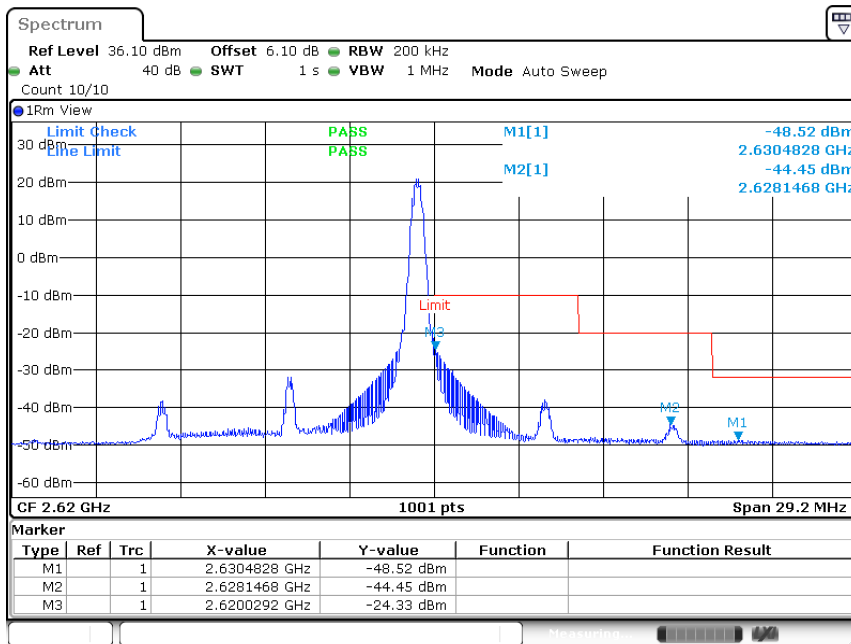
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**Band38-10MHz-16QAM-37800-50RB#0**



Date: 13.AUG.2020 21:44:16

**Band38-10MHz-16QAM-38200-1RB#49**

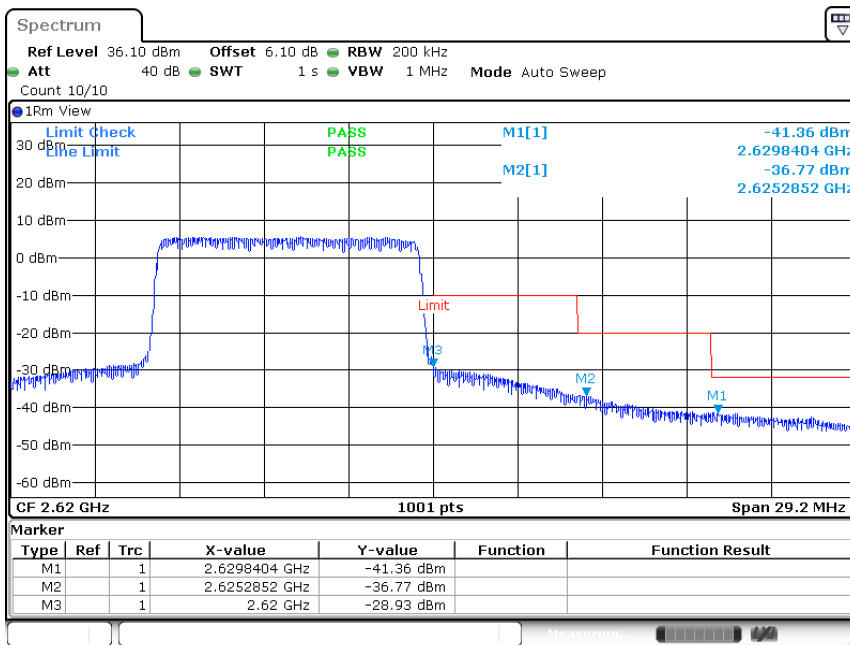


Date: 13.AUG.2020 21:43:28



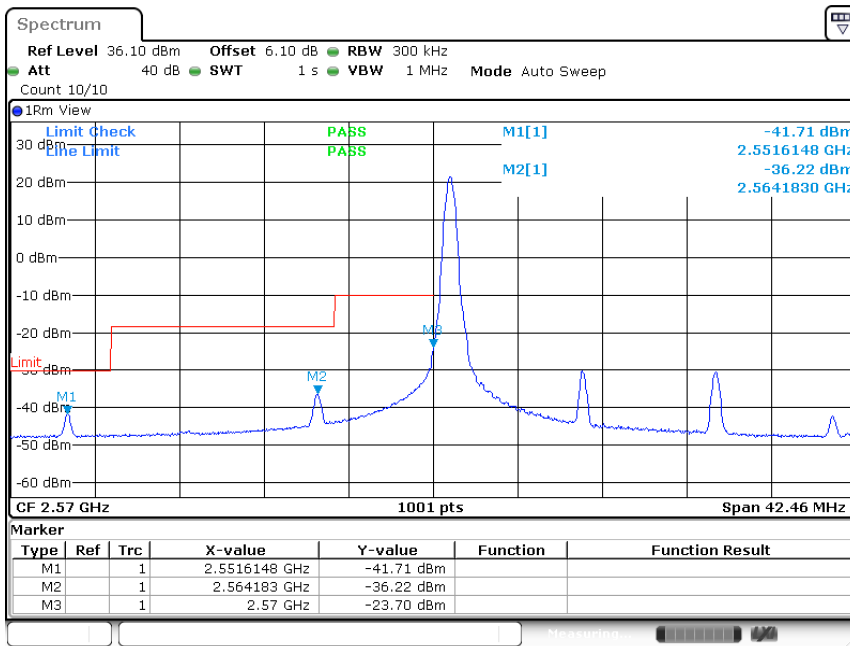
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**Band38-10MHz-16QAM-38200-50RB#0**



Date: 13.AUG.2020 21:45:00

**Band38-15MHz-QPSK-37825-1RB#0**

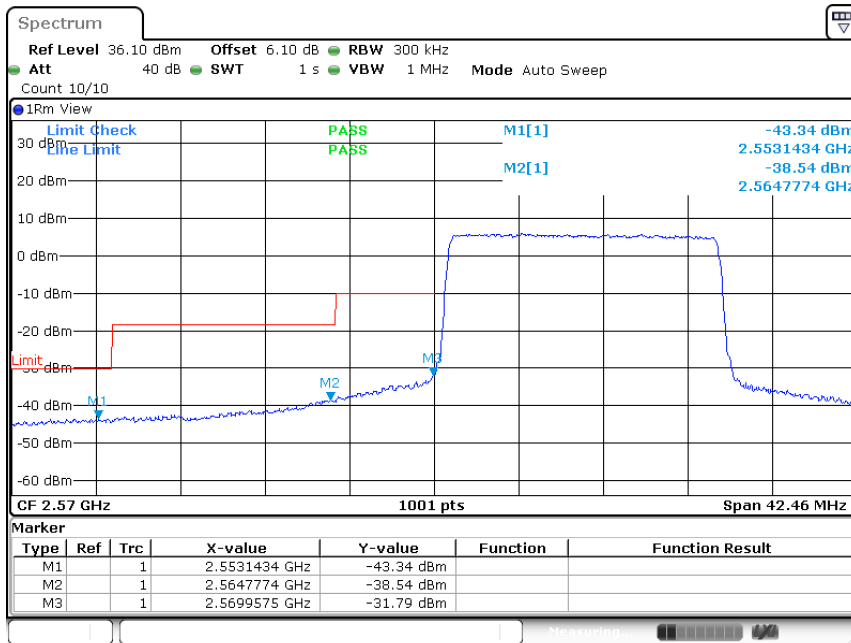


Date: 13.AUG.2020 21:45:26



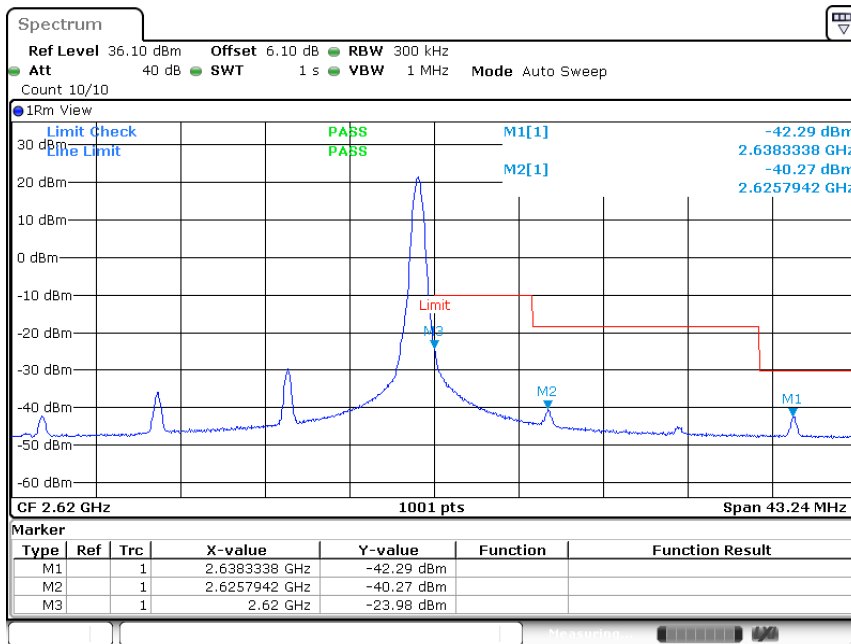
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**Band38-15MHz-QPSK-37825-75RB#0**



Date: 13.AUG.2020 21:47:02

**Band38-15MHz-QPSK-38175-1RB#74**

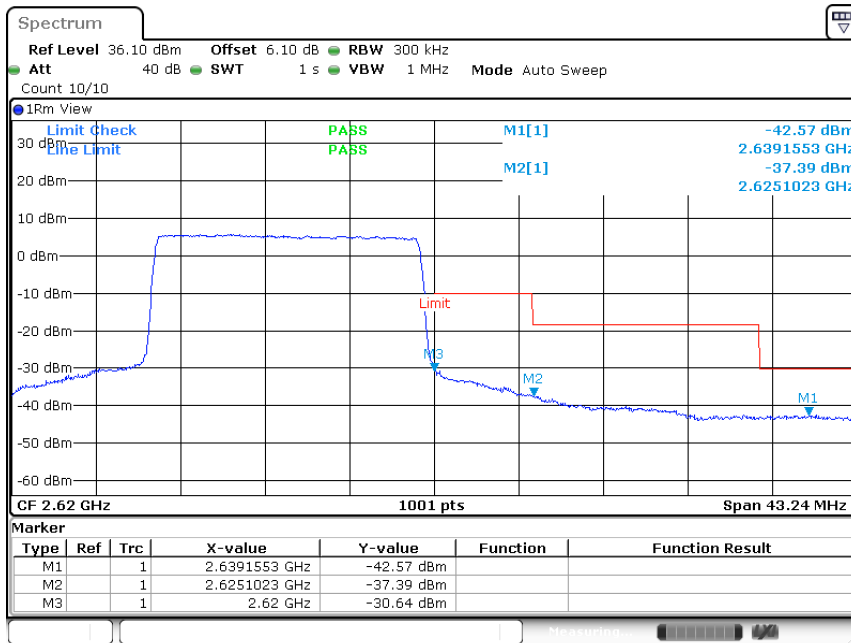


Date: 13.AUG.2020 21:46:14



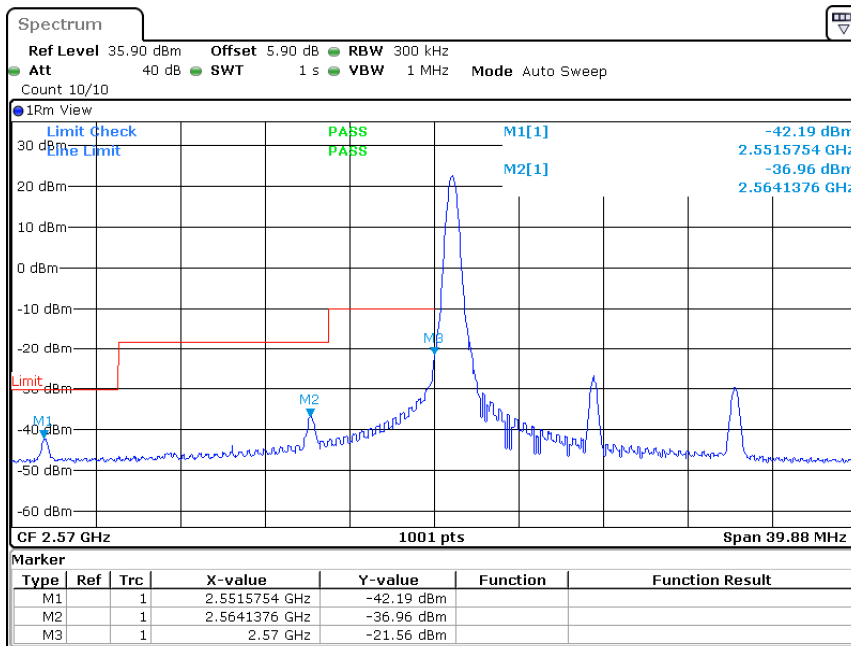
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**Band38-15MHz-QPSK-38175-75RB#0**



Date: 13.AUG.2020 21:47:46

**Band38-15MHz-64QAM-37825-1RB#0**

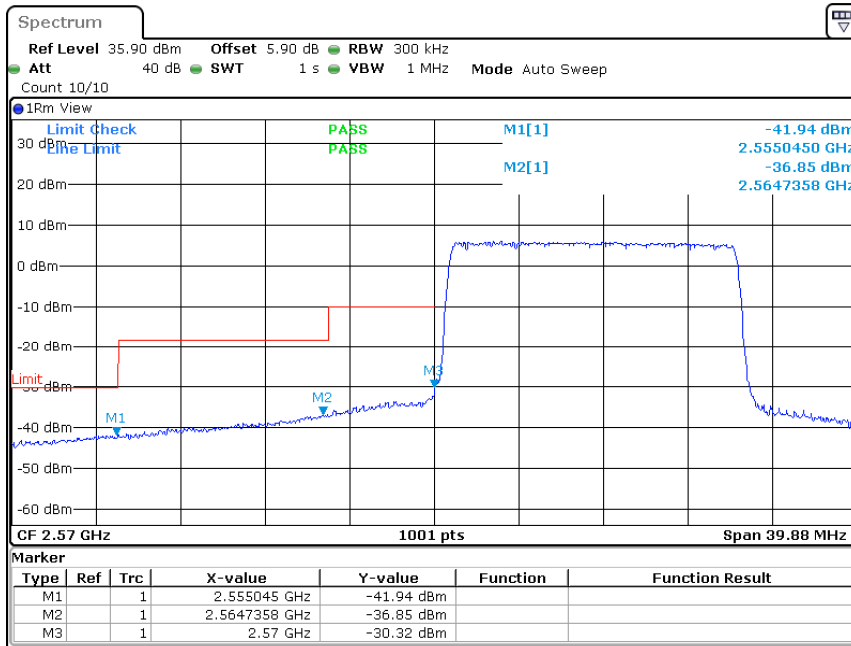


Date: 28.AUG.2020 20:50:23



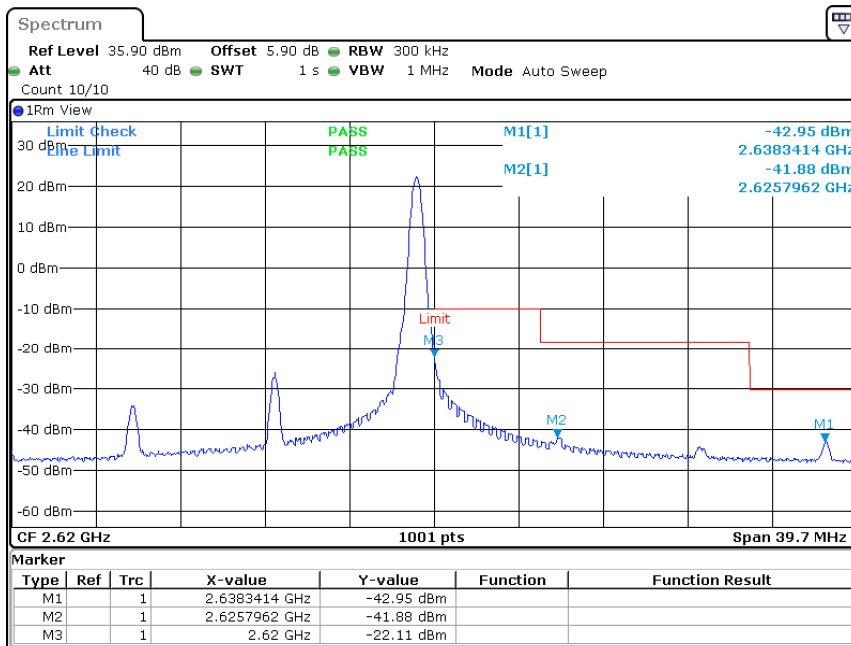
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**Band38-15MHz-64QAM-37825-75RB#0**



Date: 28.AUG.2020 20:51:16

**Band38-15MHz-64QAM-38175-1RB#74**

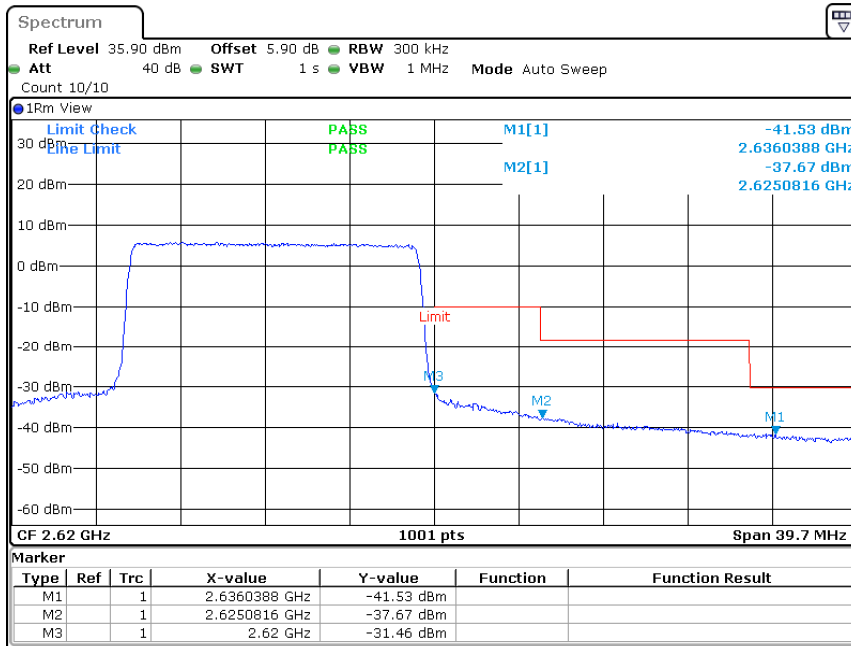


Date: 28.AUG.2020 20:50:50



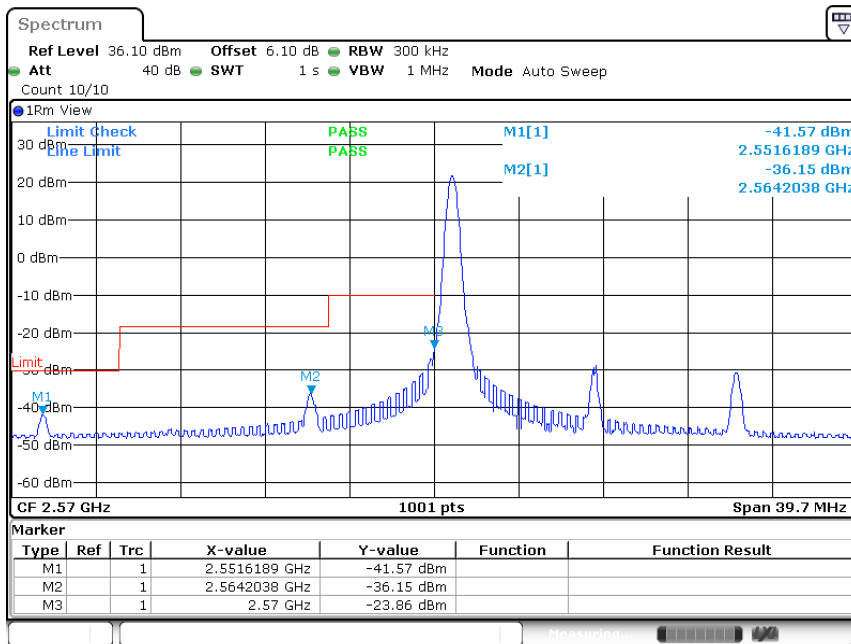
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**Band38-15MHz-64QAM-38175-75RB#0**



Date: 28.AUG.2020 20:51:39

**Band38-15MHz-16QAM-37825-1RB#0**



Date: 13.AUG.2020 21:45:48



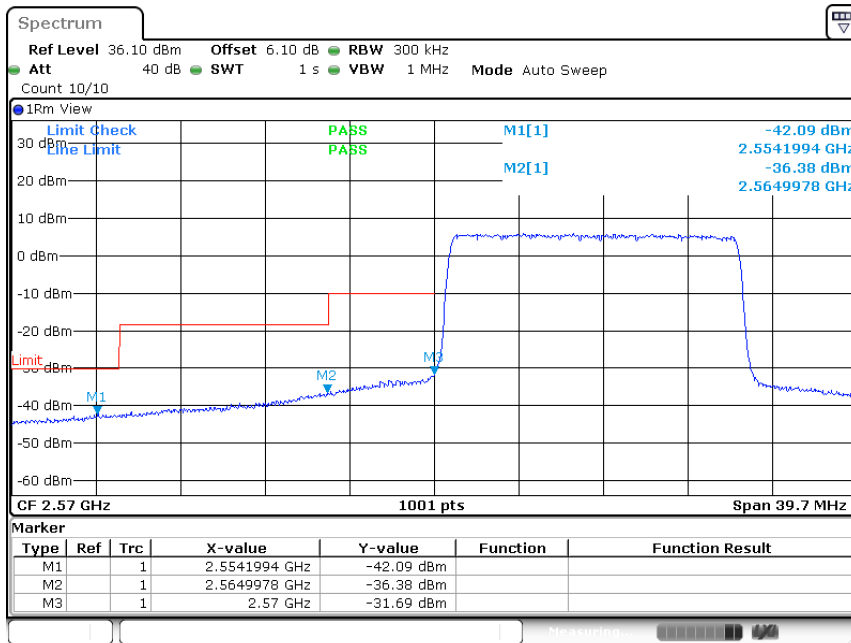
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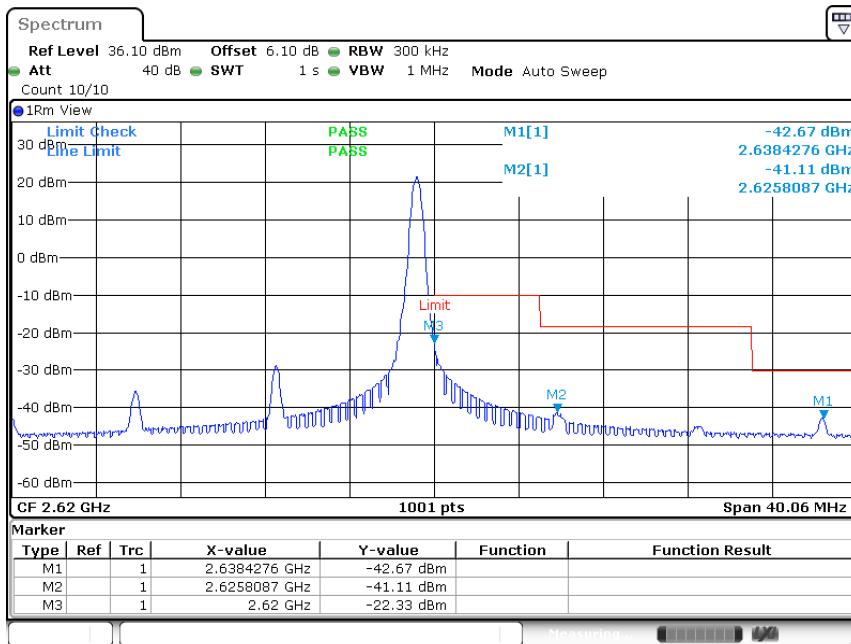


**Band38-15MHz-16QAM-37825-75RB#0**



Date: 13.AUG.2020 21:47:24

**Band38-15MHz-16QAM-38175-1RB#74**

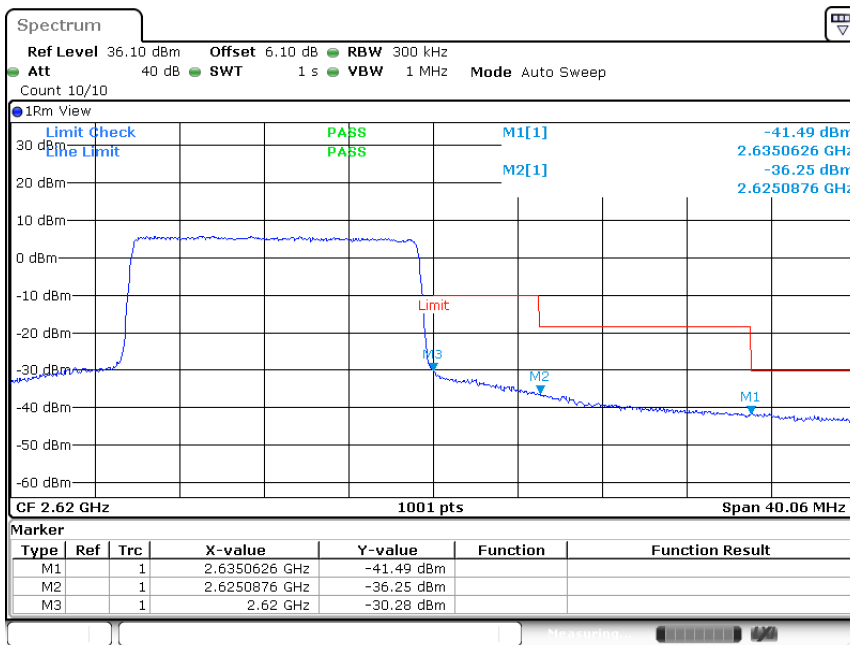


Date: 13.AUG.2020 21:46:36



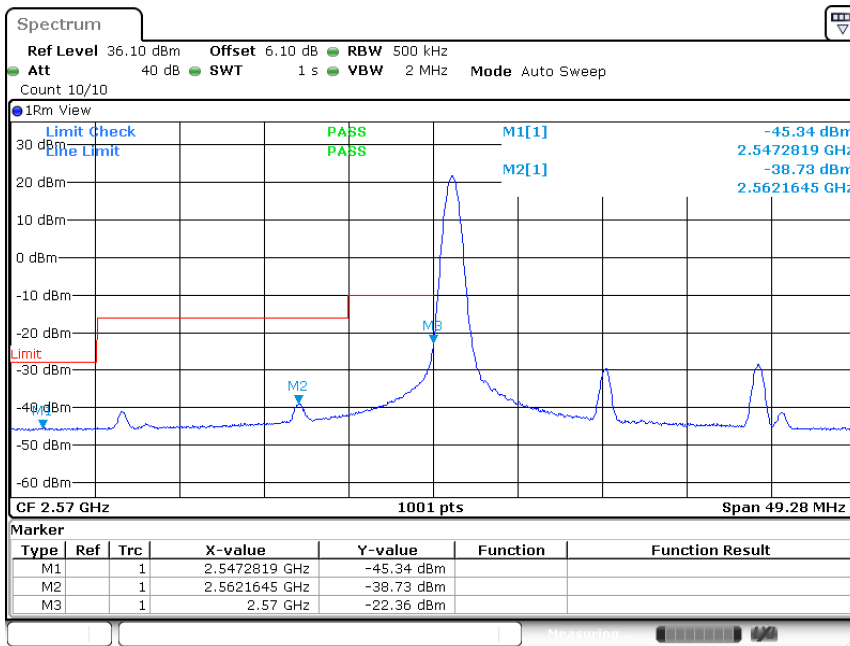
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**Band38-15MHz-16QAM-38175-75RB#0**



Date: 13.AUG.2020 21:48:08

**Band38-20MHz-QPSK-37850-1RB#0**



Date: 13.AUG.2020 21:48:35

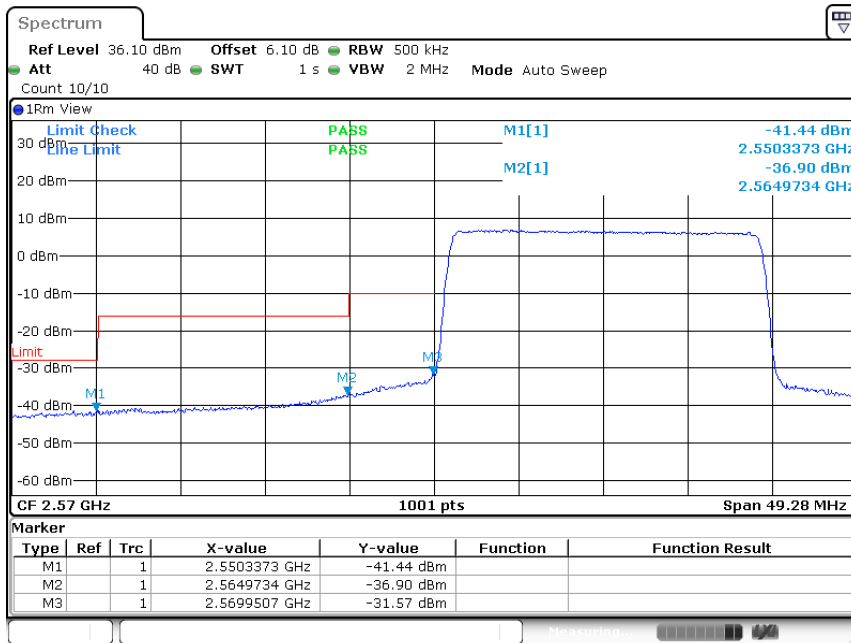


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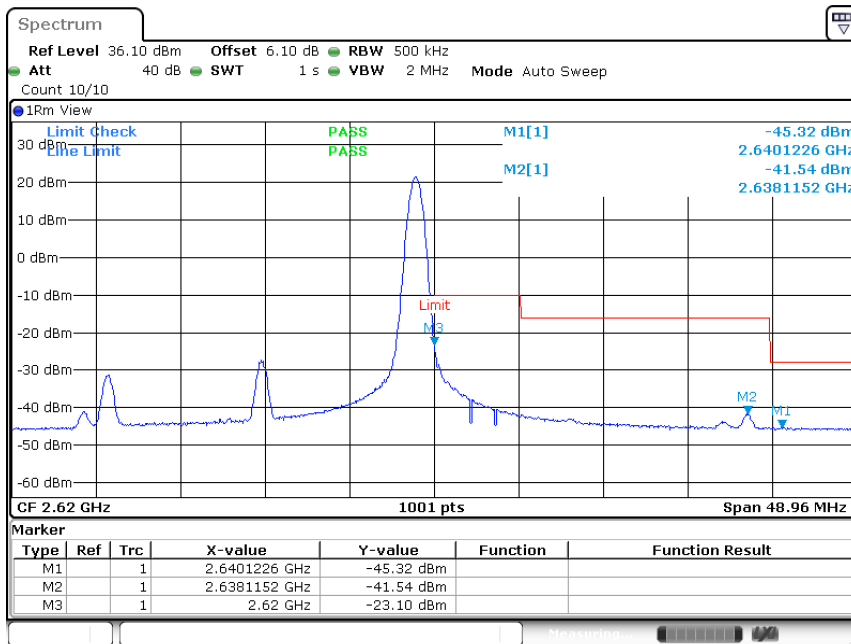
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

**Band38-20MHz-QPSK-37850-100RB#0**



Date: 13.AUG.2020 21:50:11

**Band38-20MHz-QPSK-38150-1RB#99**

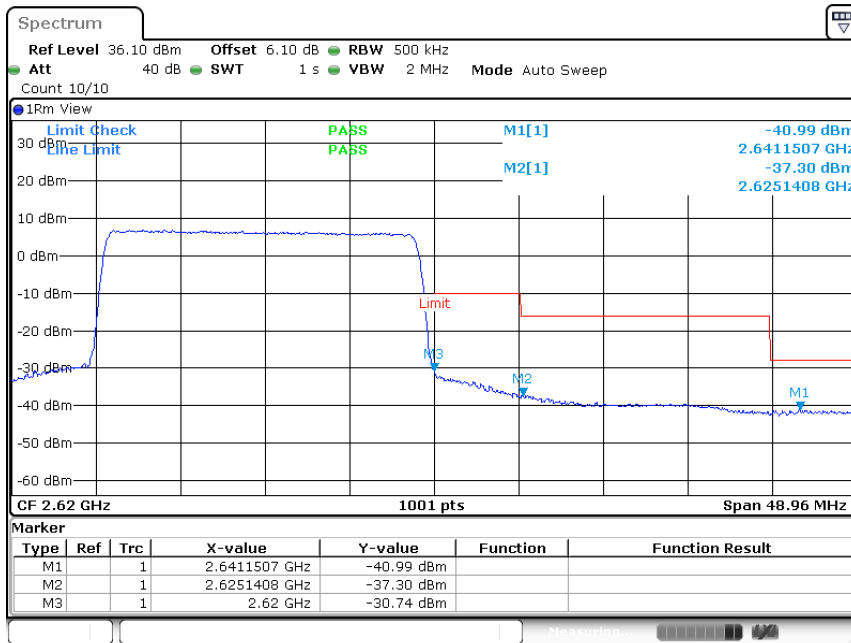


Date: 13.AUG.2020 21:49:23



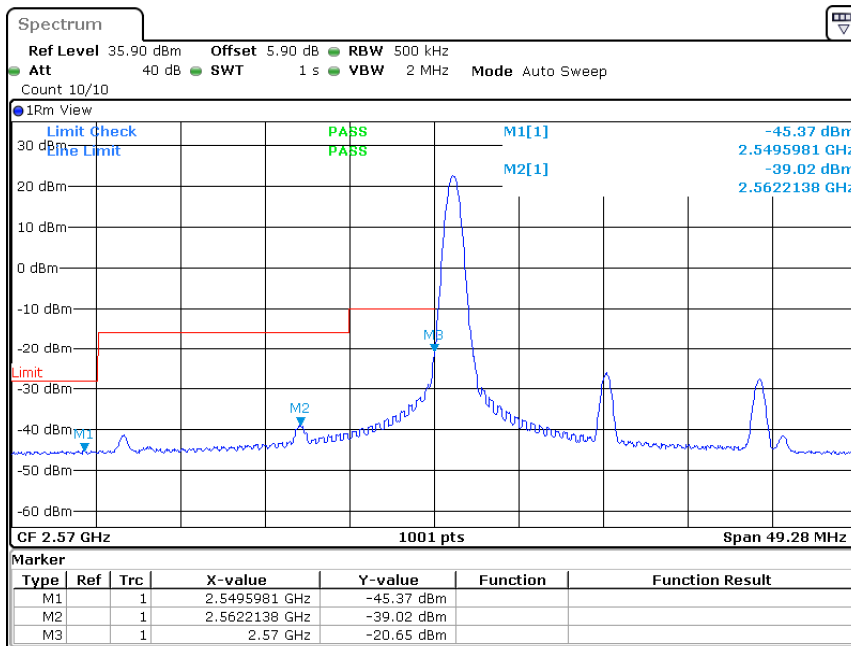
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**Band38-20MHz-QPSK-38150-100RB#0**



Date: 13.AUG.2020 21:50:55

**Band38-20MHz-64QAM-37850-1RB#0**

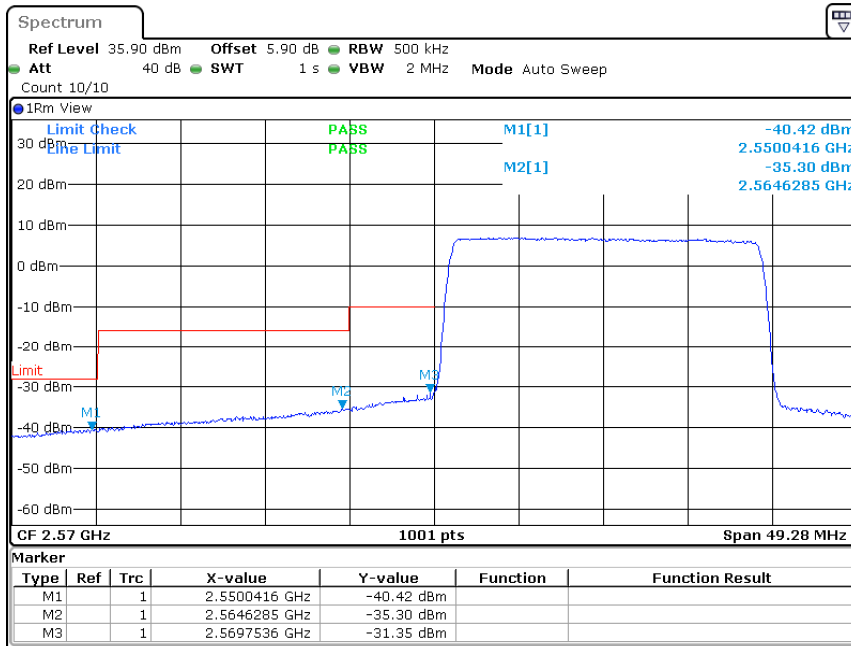


Date: 28.AUG.2020 20:52:06



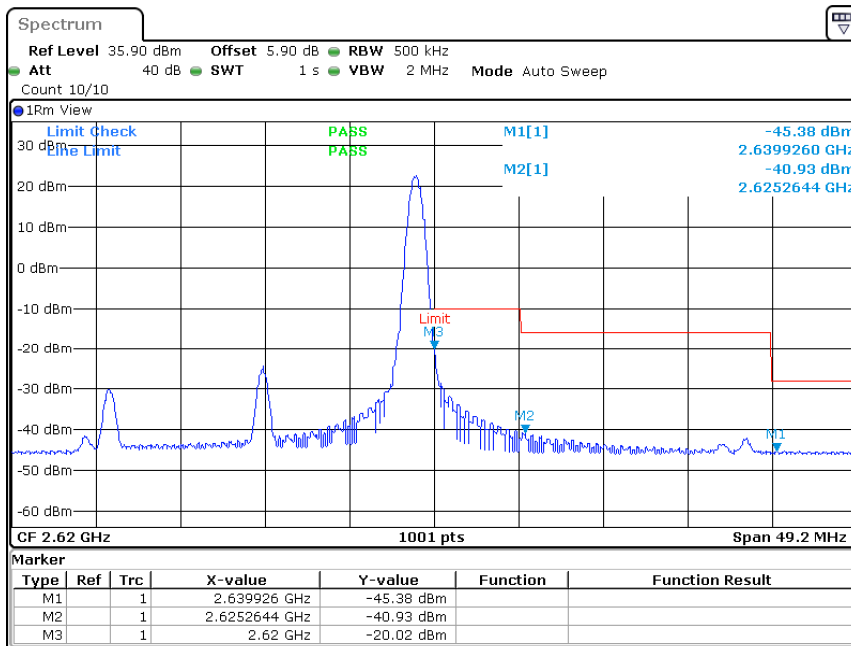
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**Band38-20MHz-64QAM-37850-100RB#0**



Date: 28.AUG.2020 20:52:59

**Band38-20MHz-64QAM-38150-1RB#99**

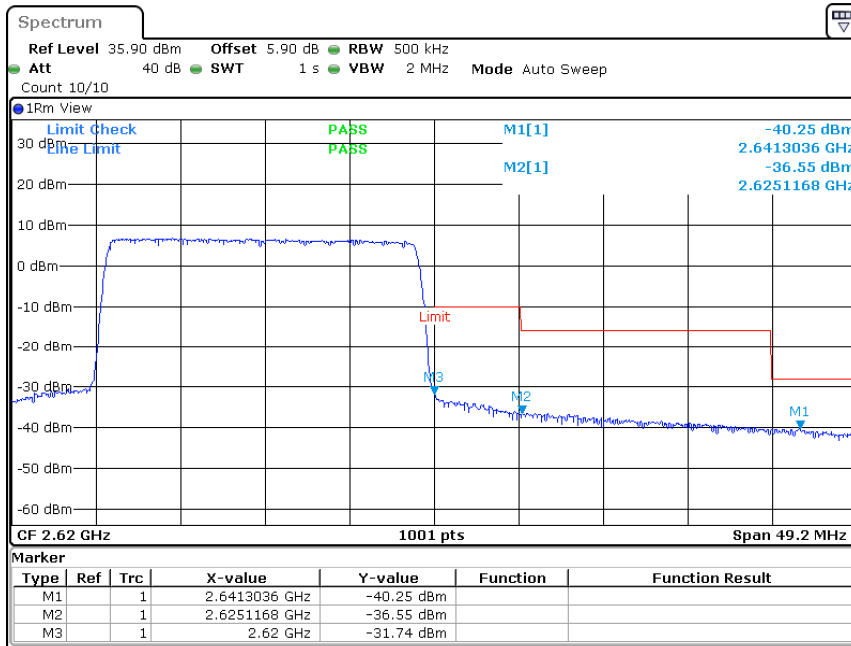


Date: 28.AUG.2020 20:52:32



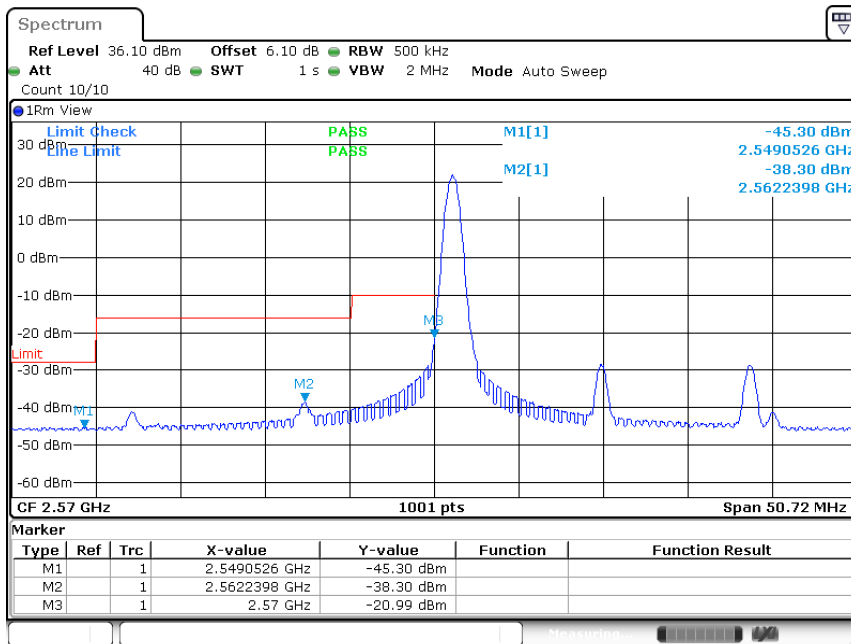
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**Band38-20MHz-64QAM-38150-100RB#0**



Date: 28.AUG.2020 20:53:21

**Band38-20MHz-16QAM-37850-1RB#0**

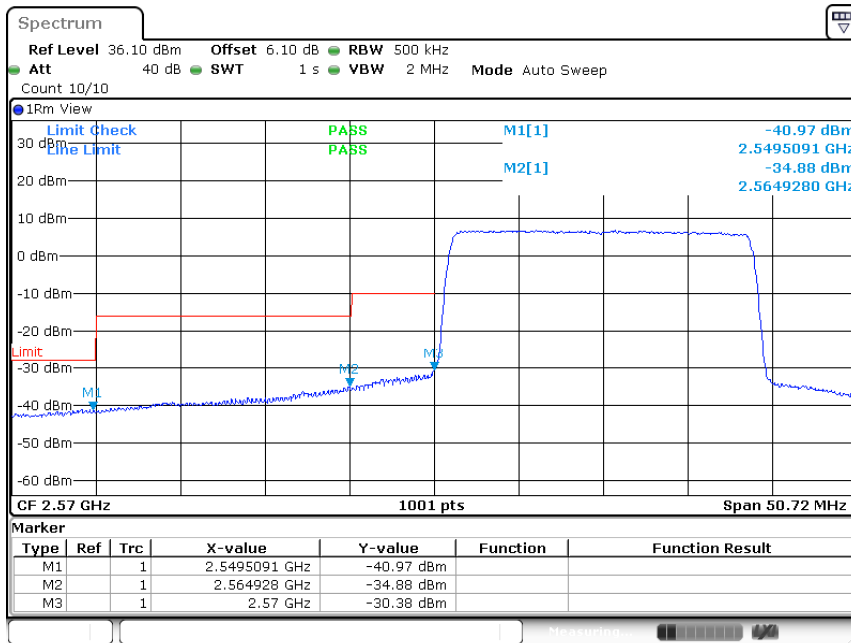


Date: 13.AUG.2020 21:48:57



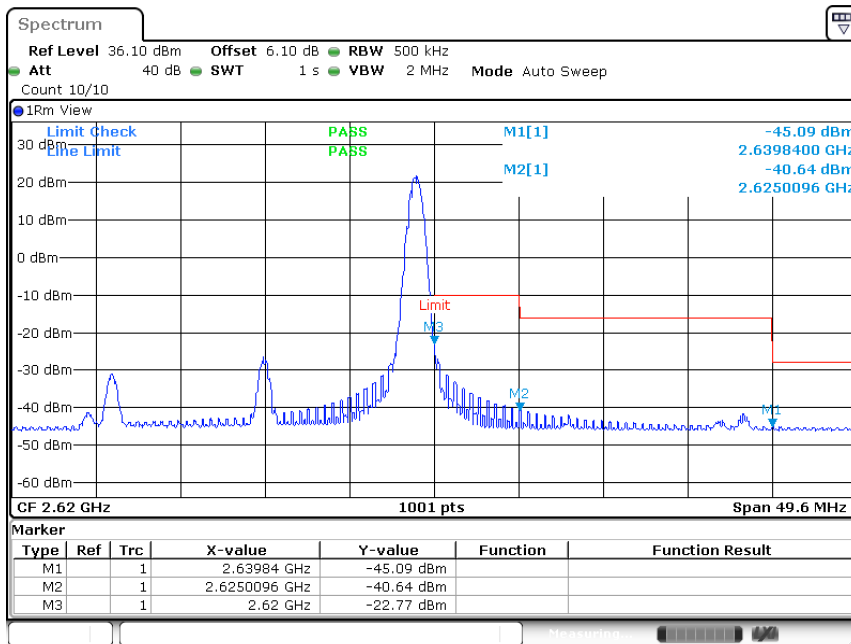
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**Band38-20MHz-16QAM-37850-100RB#0**



Date: 13.AUG.2020 21:50:33

**Band38-20MHz-16QAM-38150-1RB#99**

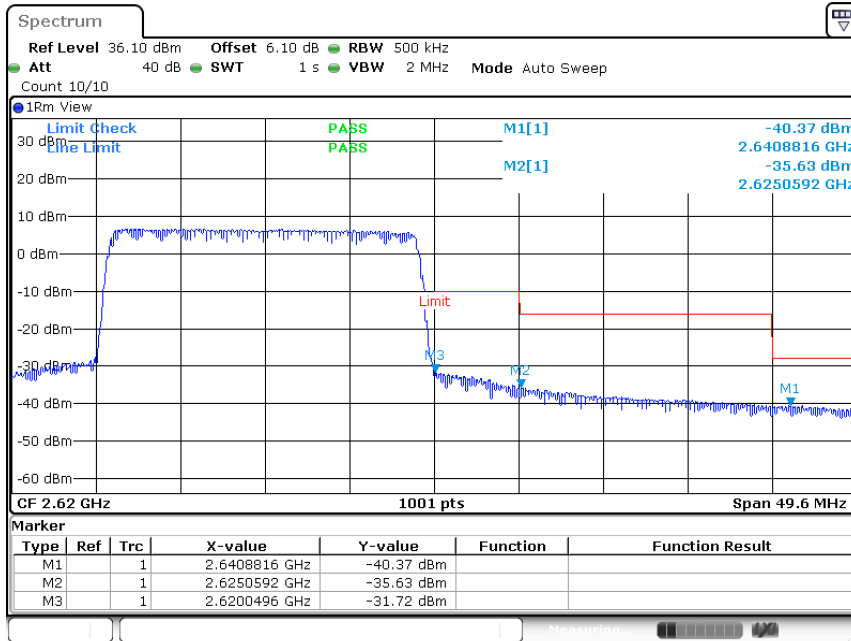


Date: 13.AUG.2020 21:49:45



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**Band38-20MHz-16QAM-38150-100RB#0**



Date: 13.AUG.2020 21:51:17



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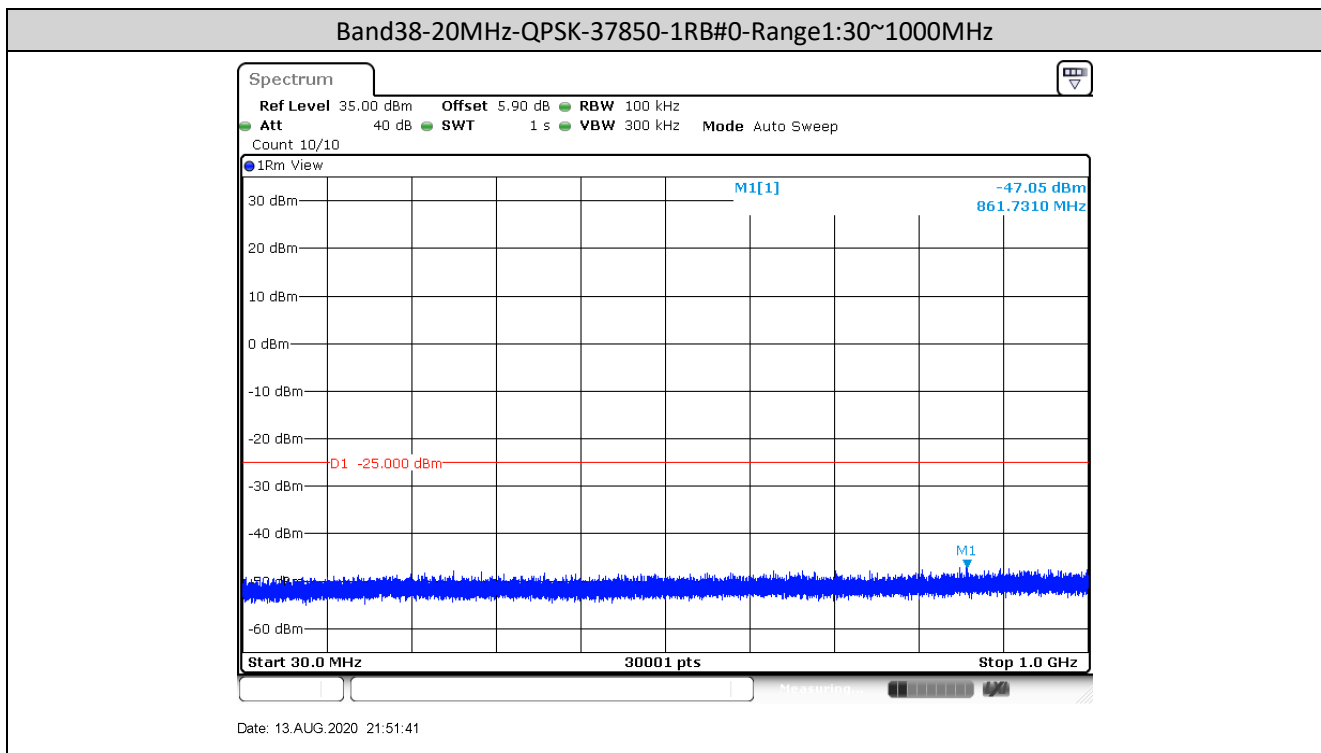


## 6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (\text{Span} / RBW)$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

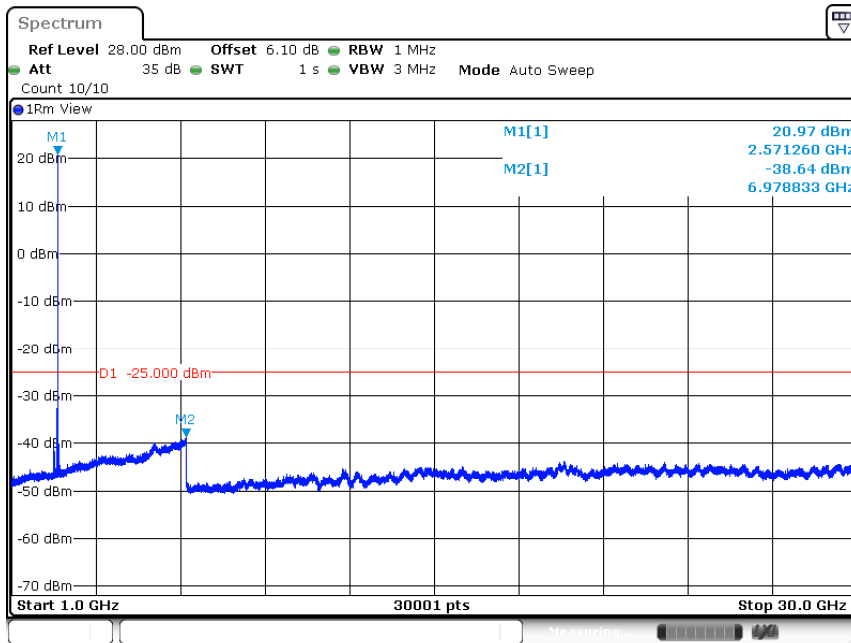
### 6.1. Test Plots



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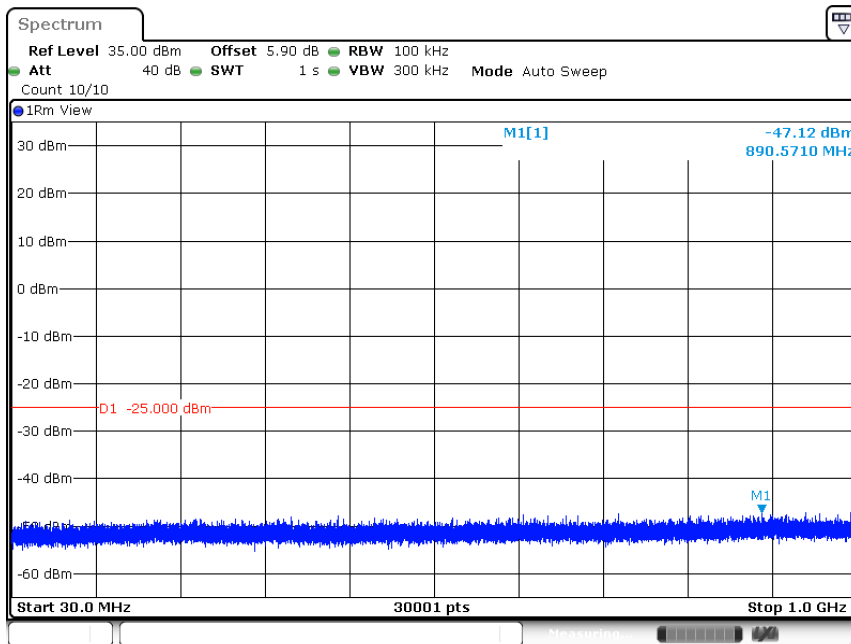
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**Band38-20MHz-QPSK-37850-1RB#0-Range2:1000~30000MHz**



Date: 13.AUG.2020 21:51:57

**Band38-20MHz-QPSK-38000-1RB#0-Range1:30~1000MHz**



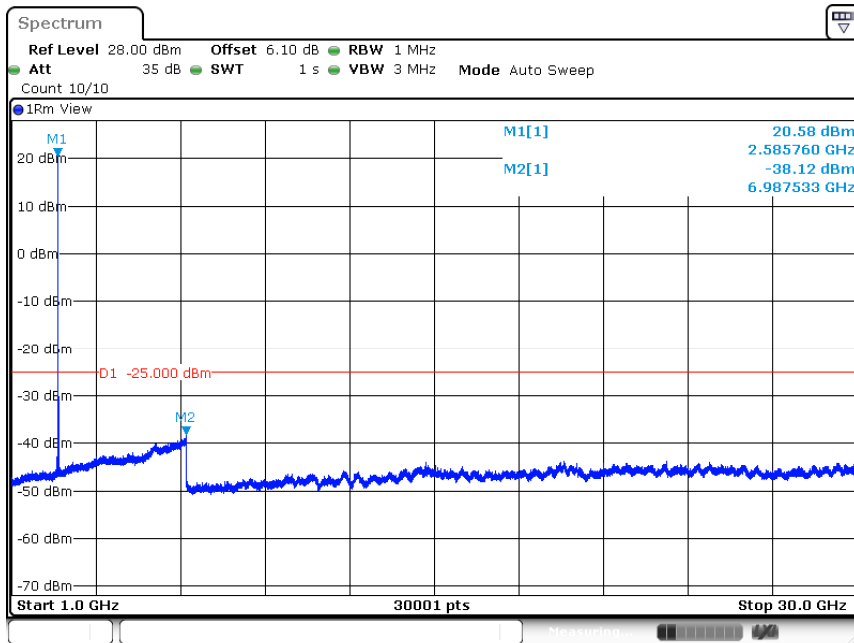
Date: 13.AUG.2020 21:52:52



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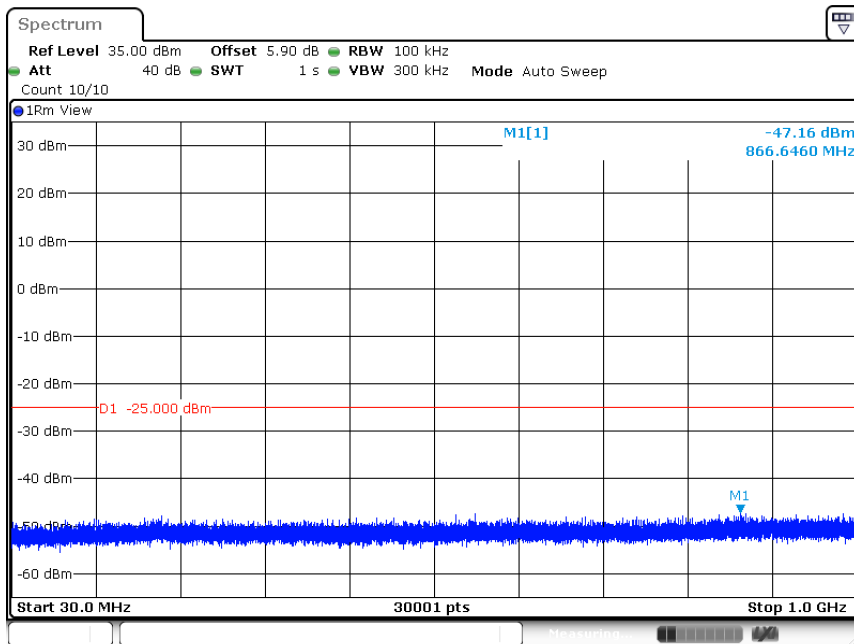
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**Band38-20MHz-QPSK-38000-1RB#0-Range2:1000~30000MHz**



Date: 13.AUG.2020 21:53:09

**Band38-20MHz-QPSK-38150-1RB#0-Range1:30~1000MHz**



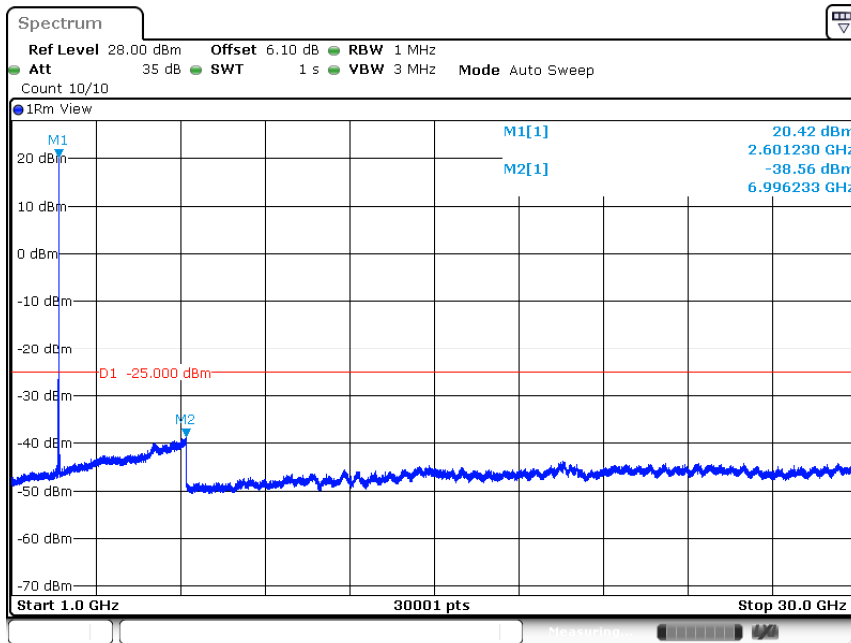
Date: 13.AUG.2020 21:54:03



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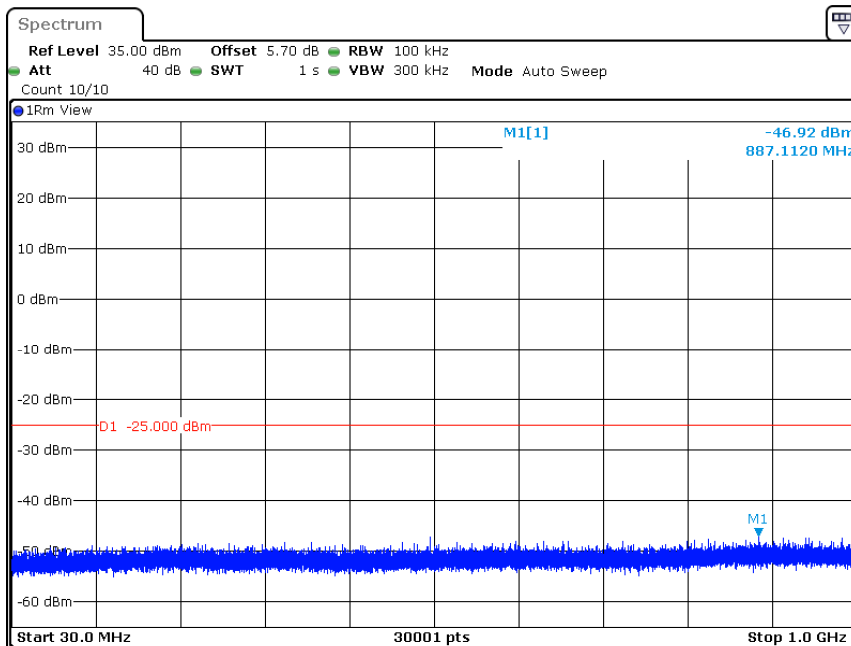
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**Band38-20MHz-QPSK-38150-1RB#0-Range2:1000~30000MHz**



Date: 13.AUG.2020 21:54:20

**Band38-20MHz-64QAM-37850-1RB#0-Range1:30~1000MHz**

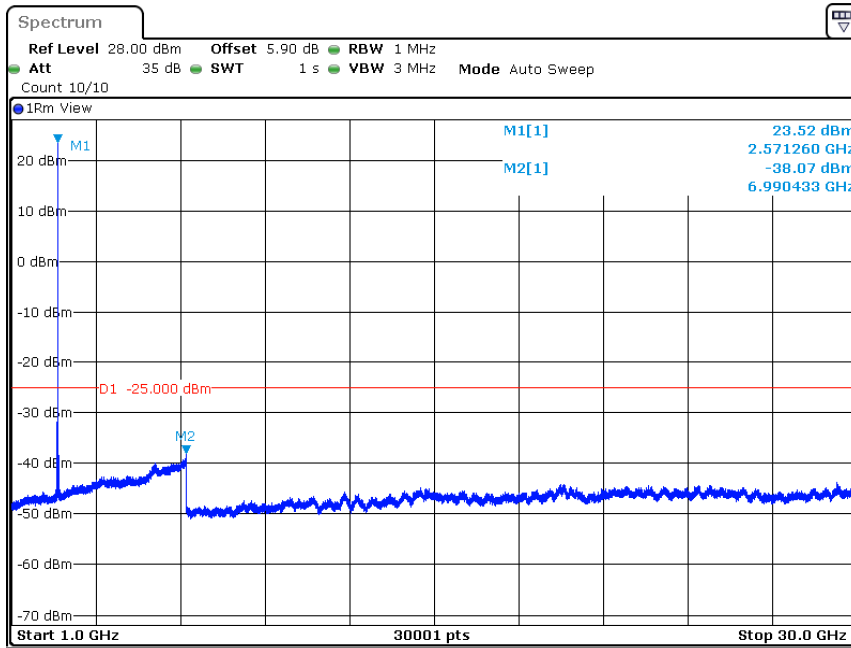


Date: 28.AUG.2020 20:53:44



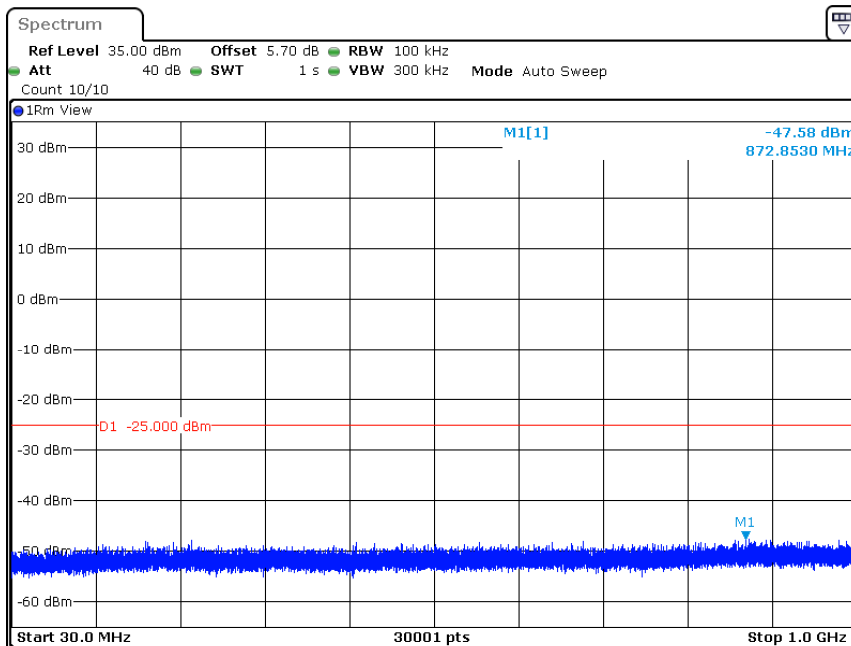
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**Band38-20MHz-64QAM-37850-1RB#0-Range2:1000~30000MHz**



Date: 28.AUG.2020 20:54:01

**Band38-20MHz-64QAM-38000-1RB#0-Range1:30~1000MHz**



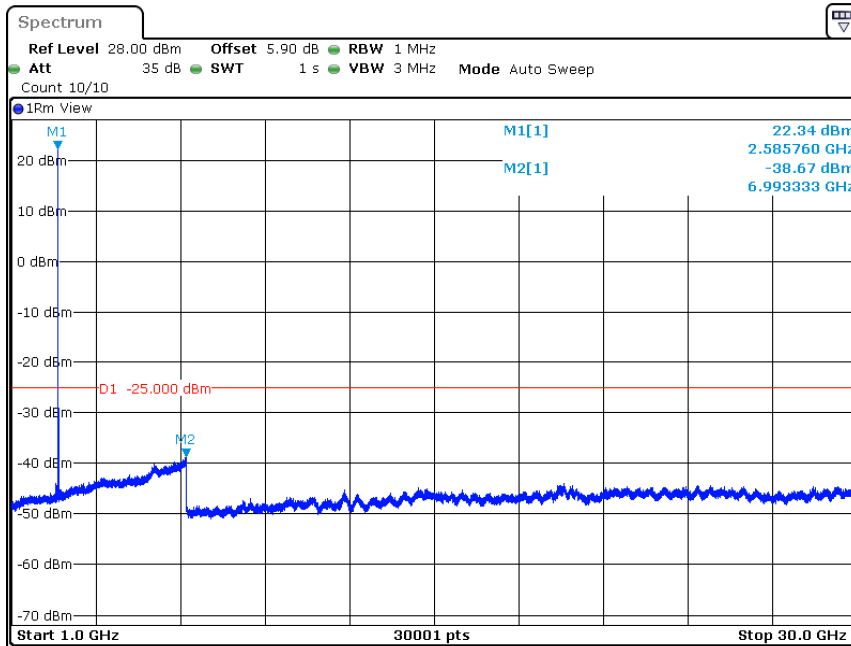
Date: 28.AUG.2020 20:54:20



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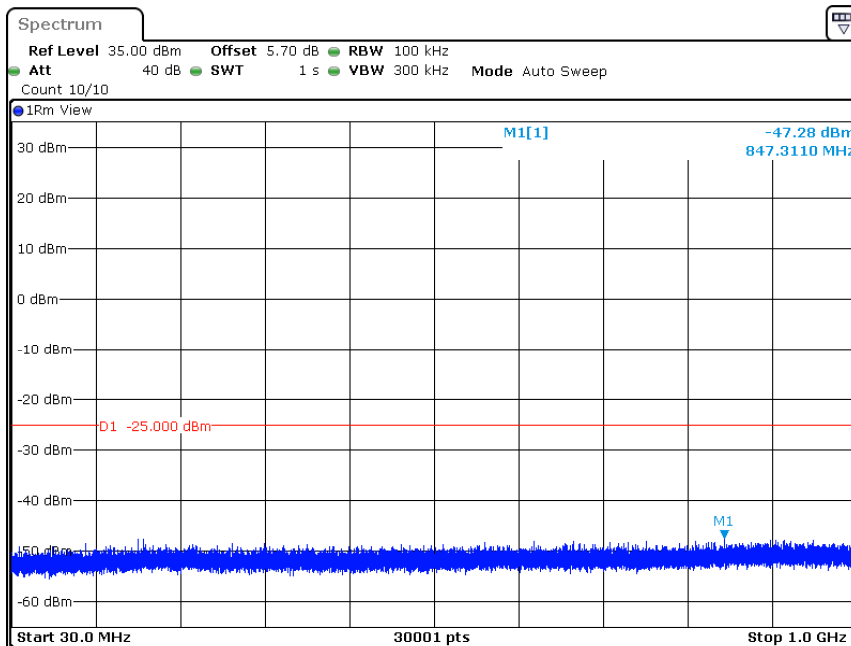
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**Band38-20MHz-64QAM-38000-1RB#0-Range2:1000~30000MHz**



Date: 28.AUG.2020 20:54:38

**Band38-20MHz-64QAM-38150-1RB#0-Range1:30~1000MHz**



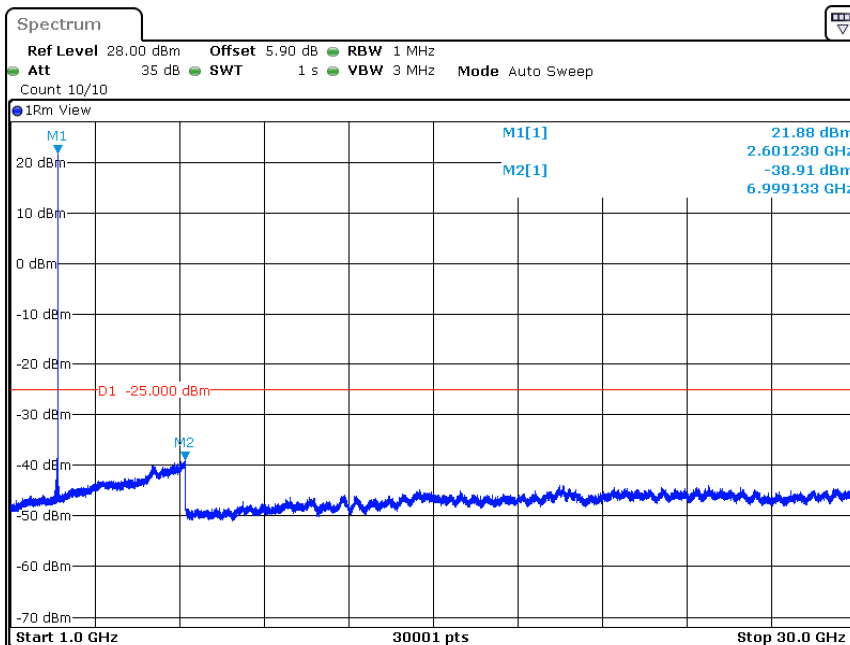
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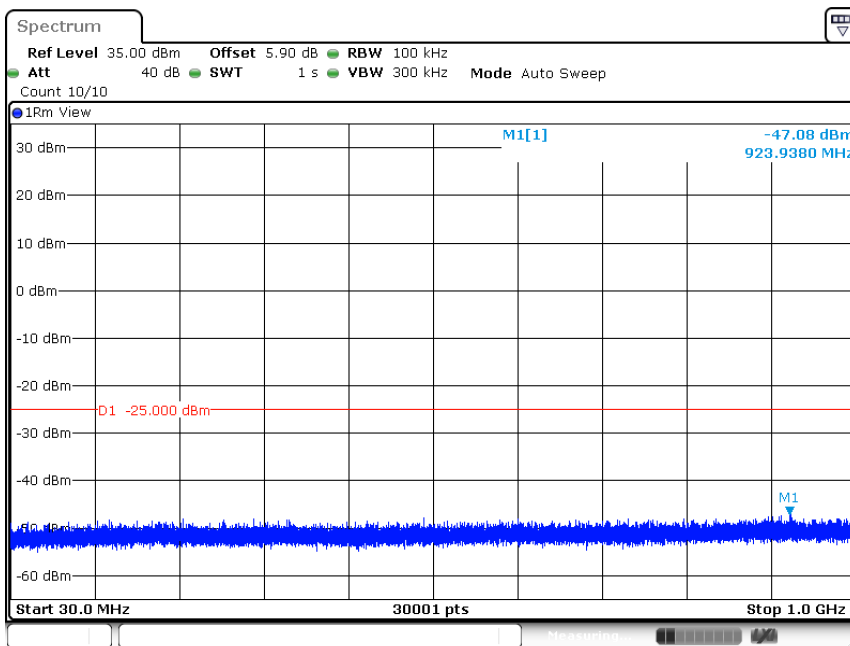
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**Band38-20MHz-64QAM-38150-1RB#0-Range2:1000~30000MHz**



Date: 28.AUG.2020 20:55:14

**Band38-20MHz-16QAM-37850-1RB#0-Range1:30~1000MHz**

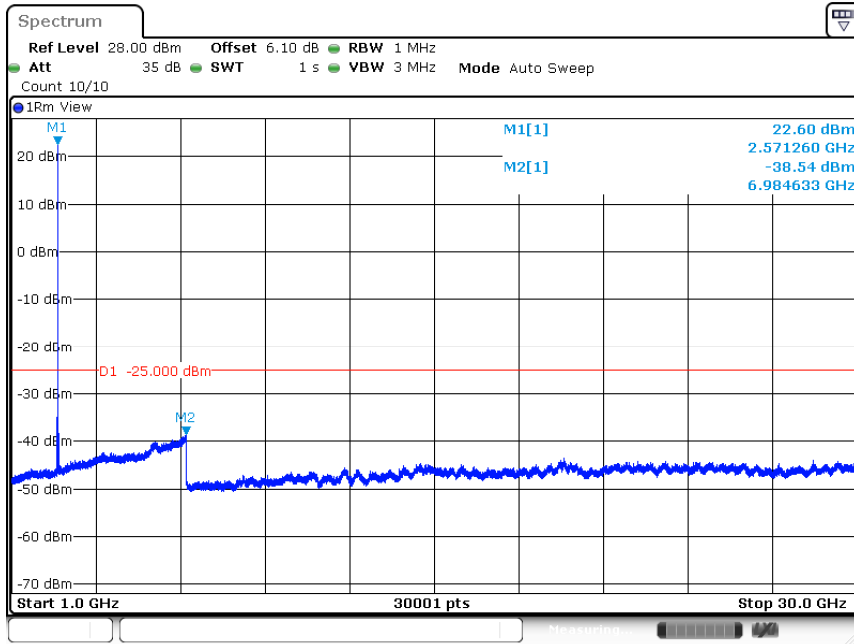


Date: 13.AUG.2020 21:52:16



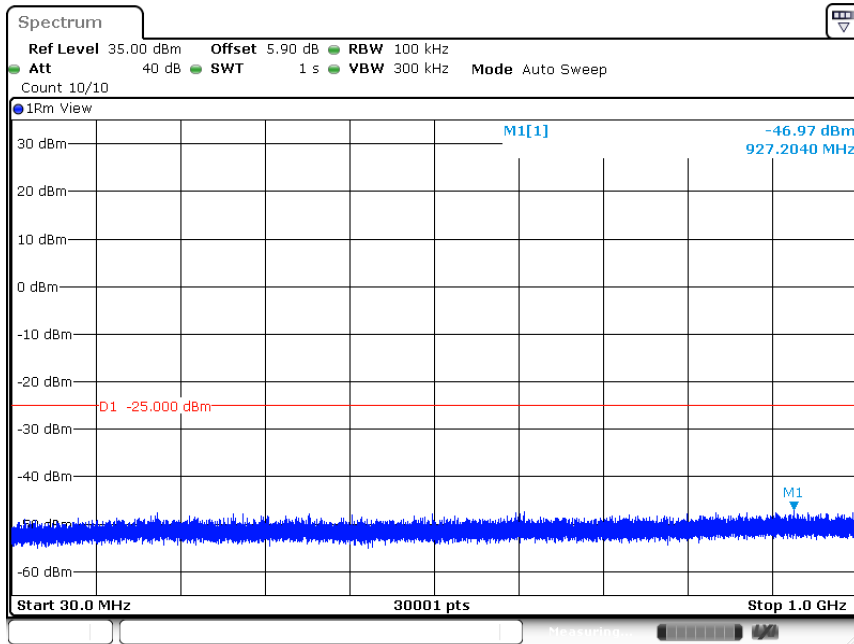
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**Band38-20MHz-16QAM-37850-1RB#0-Range2:1000~30000MHz**



Date: 13.AUG.2020 21:52:33

**Band38-20MHz-16QAM-38000-1RB#0-Range1:30~1000MHz**



Date: 13.AUG.2020 21:53:27

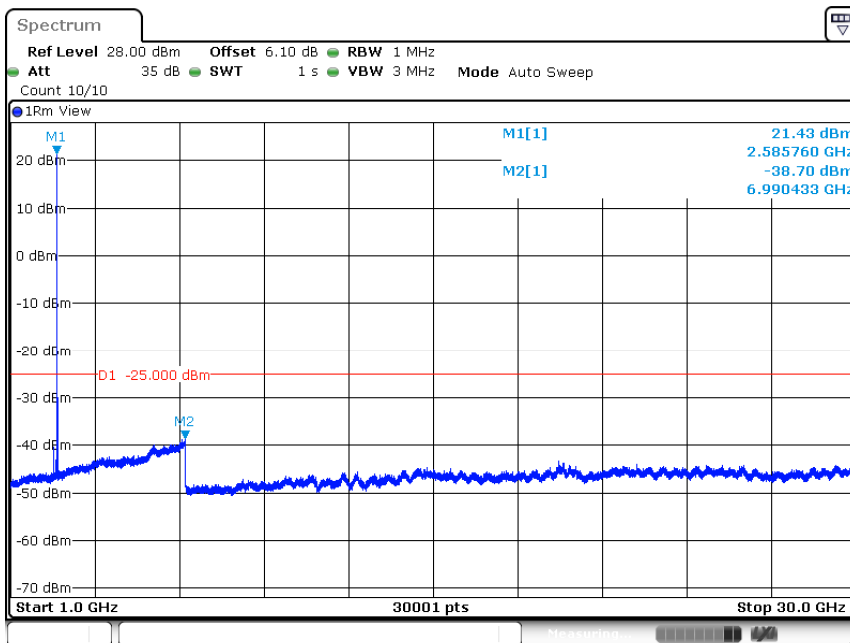


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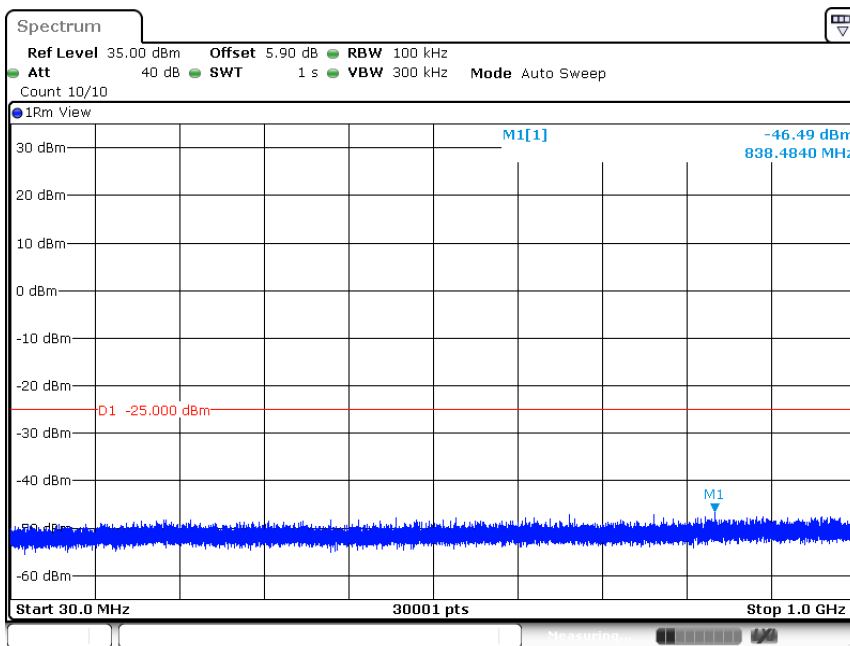


**Band38-20MHz-16QAM-38000-1RB#0-Range2:1000~30000MHz**



Date: 13.AUG.2020 21:53:44

**Band38-20MHz-16QAM-38150-1RB#0-Range1:30~1000MHz**



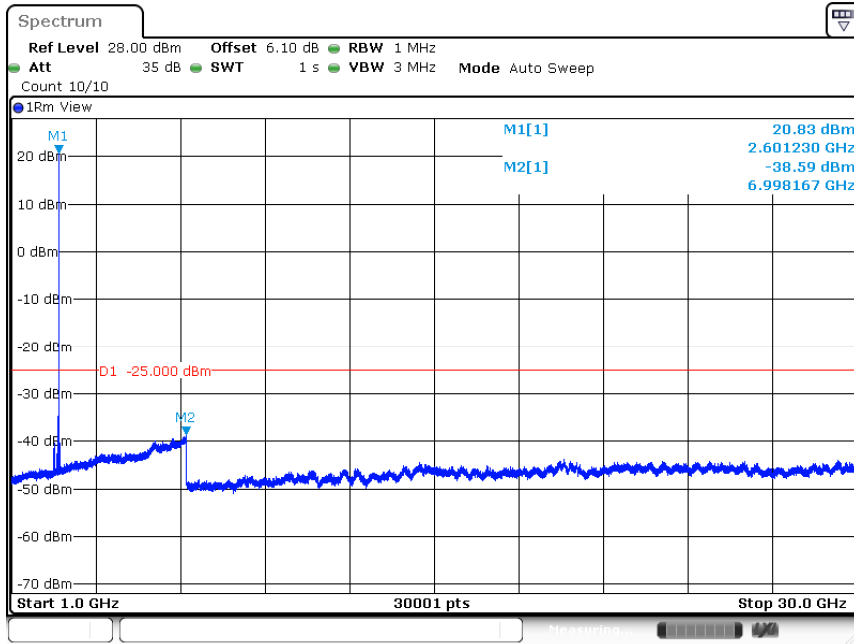
Date: 13.AUG.2020 21:54:39



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**Band38-20MHz-16QAM-38150-1RB#0-Range2:1000~30000MHz**



Date: 13.AUG.2020 21:54:56



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## 7. Field Strength of Spurious Radiation

### 7.1. Test Mode =LTE/TM1 20MHz

#### 7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
50.0800	-69.12	-25.00	44.12	Vertical
110.7565	-64.07	-25.00	39.07	Vertical
1708.5417	-44.31	-25.00	19.31	Vertical
5142.0714	-54.53	-25.00	29.53	Vertical
14491.3830	-47.26	-25.00	22.26	Vertical
17999.0000	-39.47	-25.00	14.47	Vertical
43.0957	-64.34	-25.00	39.34	Horizontal
238.2694	-68.10	-25.00	43.10	Horizontal
1610.9222	-44.82	-25.00	19.82	Horizontal
5142.0714	-57.33	-25.00	32.33	Horizontal
10590.7530	-51.35	-25.00	26.35	Horizontal
16390.4463	-43.07	-25.00	18.07	Horizontal

#### 7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.4010	-70.07	-25.00	45.07	Vertical
115.3158	-64.79	-25.00	39.79	Vertical
384.2132	-67.46	-25.00	42.46	Vertical
5172.0724	-54.97	-25.00	29.97	Vertical
10689.7563	-50.97	-25.00	25.97	Vertical
17999.0000	-39.83	-25.00	14.83	Vertical
40.8645	-63.35	-25.00	38.35	Horizontal
229.7330	-67.89	-25.00	42.89	Horizontal
605.7238	-64.02	-25.00	39.02	Horizontal
5172.0724	-57.64	-25.00	32.64	Horizontal
10035.2345	-52.55	-25.00	27.55	Horizontal
16378.4459	-42.91	-25.00	17.91	Horizontal



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### 7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.6435	-69.90	-25.00	44.90	Vertical
111.9691	-64.92	-25.00	39.92	Vertical
596.5568	-63.40	-25.00	38.40	Vertical
5202.5734	-54.87	-25.00	29.87	Vertical
10671.7557	-51.08	-25.00	26.08	Vertical
17997.4999	-39.99	-25.00	14.99	Vertical
45.0358	-63.86	-25.00	38.86	Horizontal
242.2951	-67.84	-25.00	42.84	Horizontal
471.8086	-66.72	-25.00	41.72	Horizontal
5202.0734	-57.63	-25.00	32.63	Horizontal
10612.7538	-51.55	-25.00	26.55	Horizontal
16393.4464	-42.97	-25.00	17.97	Horizontal

**Remark:**

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.



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## 8. Frequency Stability

### 8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	VL	NT	-5.70	-0.002209	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VN	NT	-0.90	-0.000349	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VH	NT	-4.70	-0.001822	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VL	NT	-5.20	-0.002004	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	-4.40	-0.001696	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	-3.40	-0.001310	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VL	NT	-5.90	-0.002261	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VN	NT	-7.70	-0.002950	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VH	NT	-5.20	-0.001992	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	VL	NT	-3.40	-0.001318	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	VN	NT	-3.60	-0.001395	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	VH	NT	-5.80	-0.002248	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	VL	NT	-1.50	-0.000578	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	VN	NT	-3.70	-0.001426	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	VH	NT	-4.50	-0.001734	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	VL	NT	-3.60	-0.001379	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	VN	NT	-7.10	-0.002720	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	VH	NT	-5.70	-0.002184	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VL	NT	-5.00	-0.001938	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VN	NT	-5.00	-0.001938	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VH	NT	-4.30	-0.001667	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VL	NT	-4.70	-0.001811	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VN	NT	-5.10	-0.001965	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VH	NT	-6.00	-0.002312	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VL	NT	-5.50	-0.002107	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VN	NT	-5.70	-0.002184	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VH	NT	-6.10	-0.002337	±2.5	PASS



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## 8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	NV	-30	-3.90	-0.001512	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-20	-6.60	-0.002558	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-10	-3.40	-0.001318	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	0	-4.70	-0.001822	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	10	-3.30	-0.001279	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	20	-6.90	-0.002674	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	30	-7.40	-0.002868	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	40	-6.30	-0.002442	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	50	-6.70	-0.002597	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	-2.80	-0.001079	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	-6.00	-0.002312	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-10	-4.70	-0.001811	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	-7.80	-0.003006	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	-4.20	-0.001618	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	-5.40	-0.002081	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	-4.50	-0.001734	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	-5.90	-0.002274	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	-8.30	-0.003198	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-30	-6.10	-0.002337	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-20	-6.90	-0.002644	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-10	-7.70	-0.002950	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	0	-5.90	-0.002261	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	10	-4.10	-0.001571	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	20	-7.10	-0.002720	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	30	-5.70	-0.002184	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	40	-6.60	-0.002529	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	50	-6.00	-0.002299	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	-30	-5.30	-0.002054	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	-20	-4.60	-0.001783	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	-10	-4.50	-0.001744	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	0	-6.50	-0.002519	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	10	-3.40	-0.001318	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	20	-6.10	-0.002364	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	30	-5.30	-0.002054	±2.5	PASS



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Band38	20MHz	64QAM	37850	100RB#0	NV	40	-4.30	-0.001667	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	50	-5.40	-0.002093	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	-30	-6.10	-0.002351	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	-20	-4.90	-0.001888	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	-10	-6.80	-0.002620	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	0	-3.60	-0.001387	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	10	-6.60	-0.002543	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	20	-5.90	-0.002274	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	30	-7.60	-0.002929	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	40	-5.90	-0.002274	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	50	-4.40	-0.001696	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	-30	-6.90	-0.002644	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	-20	-6.40	-0.002452	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	-10	-7.60	-0.002912	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	0	-6.90	-0.002644	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	10	-3.00	-0.001149	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	20	-9.80	-0.003755	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	30	-3.60	-0.001379	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	40	-8.40	-0.003218	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	50	-6.90	-0.002644	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-30	-8.40	-0.003256	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-20	-3.40	-0.001318	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-10	-4.60	-0.001783	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	0	-7.20	-0.002791	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	10	-7.00	-0.002713	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	20	-1.40	-0.000543	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	30	-5.40	-0.002093	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	40	-6.70	-0.002597	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	50	-5.40	-0.002093	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-30	-6.10	-0.002351	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-20	-7.80	-0.003006	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-10	-0.40	-0.000154	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	0	-5.20	-0.002004	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	10	-8.50	-0.003276	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	20	-7.70	-0.002967	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	30	-5.60	-0.002158	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	40	-5.20	-0.002004	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	50	-4.10	-0.001580	±2.5	PASS



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Band38	20MHz	16QAM	38150	100RB#0	NV	-30	-9.00	-0.003448	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-20	-7.60	-0.002912	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-10	-6.30	-0.002414	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	0	-5.70	-0.002184	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	10	-5.70	-0.002184	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	20	-5.60	-0.002146	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	30	-5.70	-0.002184	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	40	-3.60	-0.001379	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	50	-7.30	-0.002797	±2.5	PASS



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